DVD Player

DVP720SA/00/02/05/69/75

Service
Service
Service

Service Manual

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CLASS 1
LASER PRODUCT

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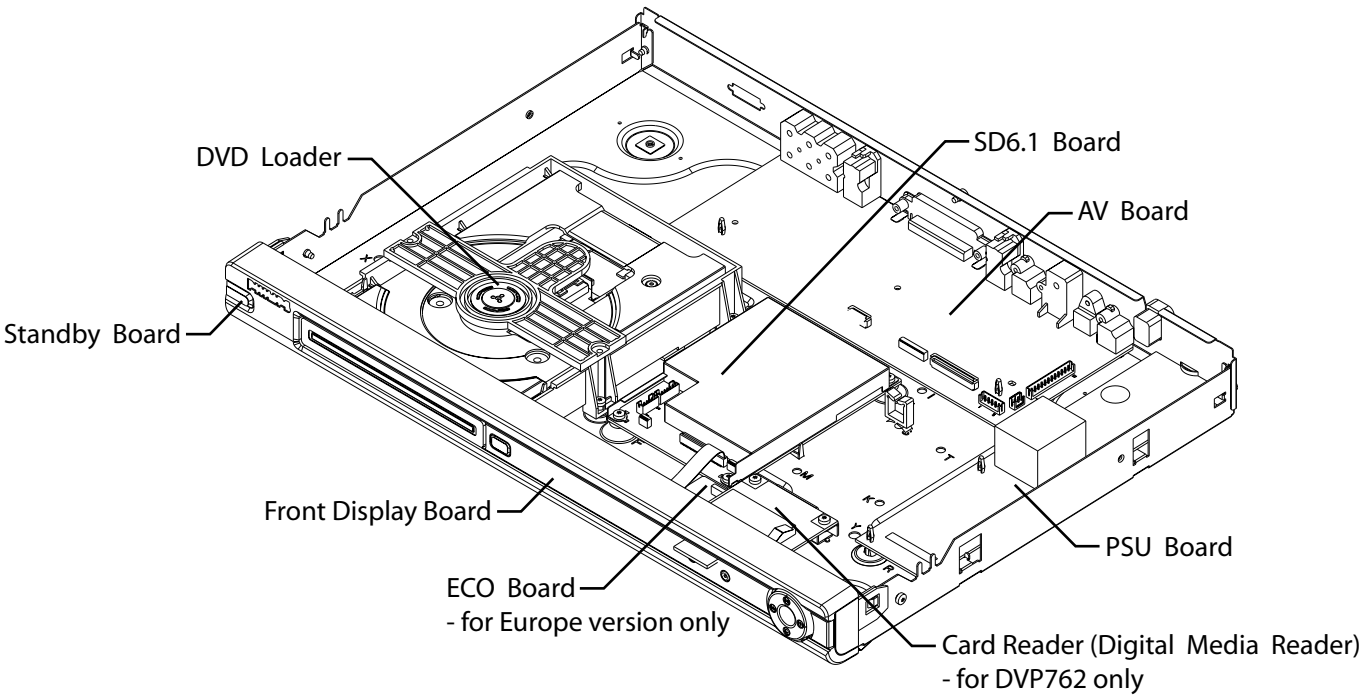
Published by BB 0413 Service Audio Printed in The Netherlands Subject to modification

GB 3139 785 30651

Version 1.1

PHILIPS

LOCATION OF PC BOARDS



VERSION VARIATIONS:

Type /Versions: / Features & Board in used:	DVP720SA							
	/00	/02	/05	/69	/75			
Aux-In								
Digital In								
TV-In								
Audio Out (Stereo/6 Channel)	x	x	x	x	x			
Audio Out (Coaxial/Optical)	x	x	x	x	x			
CVBS Output	x	x	x	x	x			
S-Video Output	x	x	x	x	x			
SCART Output	x	x	x					
Y/Pb/Pr (YUV) Component Video Output	x	x	x	x	x			
Progressive Scan	x	x	x	x	x			
ECO Standby	x	x	x					
Voltage Selector								
Card Reader (Digital Media Reader)								

SPECIFICATIONS

GENERAL:

Mains voltage : 120V for /17
220-240V for /00/02/05
110-127V/220-240V for /69/75
Mains frequency : 50/60Hz
Power consumption : < 14W
< 0.3W at Standby mode /00/02/05
< 1W at Standby mode /69/75
Dimension centre unit : 435 x 46 x 310mm

AUDIO PERFORMANCE:

Normal Mode Stereo L/R

Output Voltage	:	2Vrms ± 1.5dB
Channel Unbalance (1kHz)	:	< 0.85dB
Crosstalk	:	> 100dB (1kHz)
		> 95dB (20Hz-20kHz)
Freq. Response (20Hz-20kHz)	:	± 0.2dB max
Signal to Noise Ratio	:	> 90dB (A-weighted)
Distortion and Noise	:	> 85dB (1kHz)
		> 80dB (20Hz-2kHz)
		> 75dB (4kHz-20kHz)

6 Channel

THD + Noise	:	> 80dB (20Hz-2kHz)
		> 75dB (4kHz-20kHz)
Crosstalk (20Hz-20kHz)	:	> 75dB
S/N (1kHz)	:	> 90dB
Frequency Response	:	± 0.5dB
Output Level, 1kHz (0dB)	:	2Vrms

AUDIO FORMAT:

MPEG/AC-3/PCM	:	Compressed Digital
		16, 20, 24 bits
		fs, 44.1, 48, 96 kHz
MP3 (ISO 9660)	:	96, 112, 128, 256 kbps & variable
		bit rate fs, 32, 44.1, 48 kHz

VIDEO FORMAT:

Digital Compression	:	MPEG-2 for DVD, SVCD
		MPEG-1 for VCD
		MPEG-4

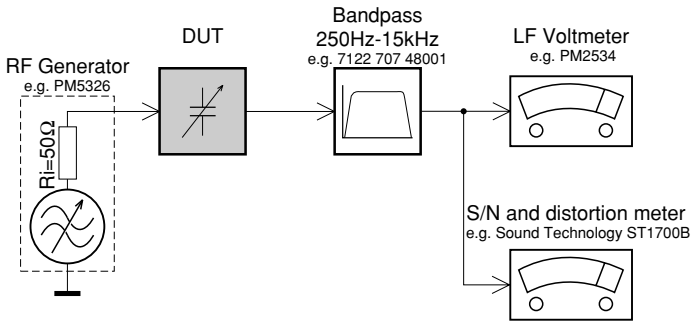
VIDEO PERFORMANCE:

CVBS [1]	:	$1.0V_{p-p}$
YPbPr [1]	:	$0.7V_{p-p}$
RGB (Scart) [1]	:	$0.7V_{p-p}$

[1] Output terminals to be terminated with 75Ω

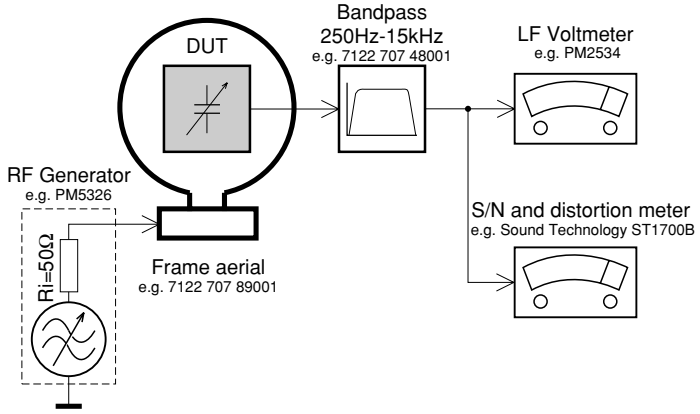
MEASUREMENT SETUP

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilottone (19kHz, 38kHz).

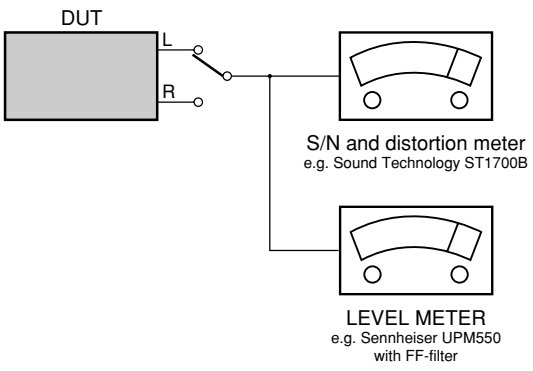
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday´s cage.
Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

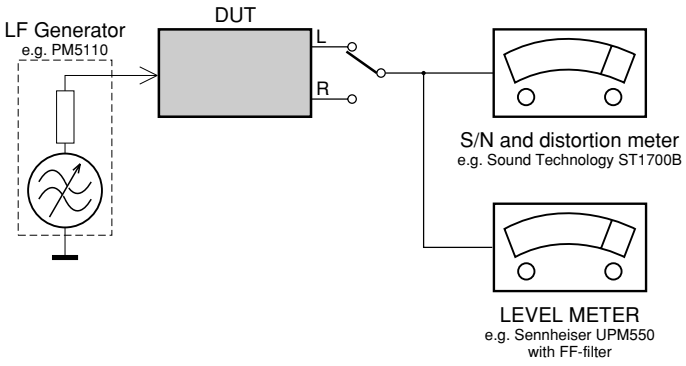
CD

Use Audio Signal Disc SBC429 4822 397 30184
(replaces test disc 3)



Recorder

Use Universal Test Cassette **CrO2** SBC419 4822 397 30069
or Universal Test Cassette **Fe** SBC420 4822 397 30071



SERVICE AIDS

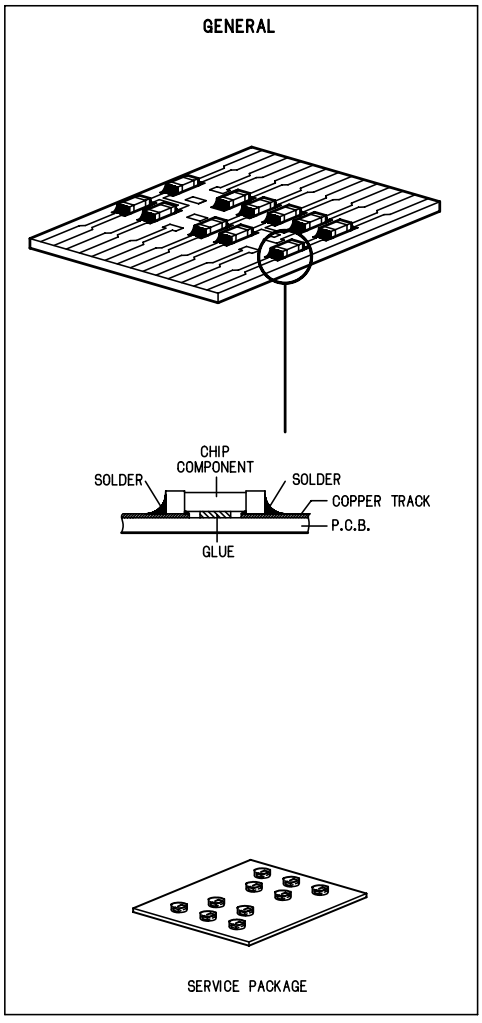
Service Tools:

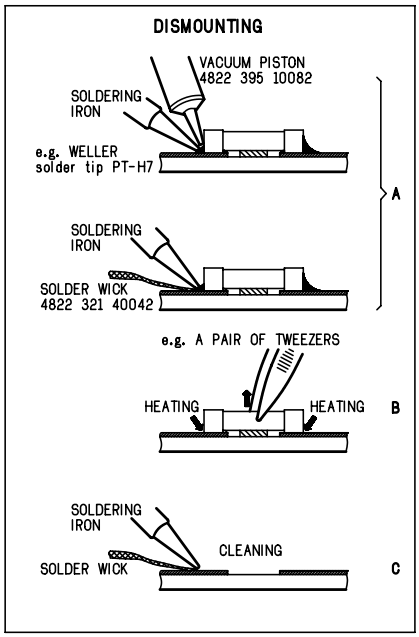
Universal Torx driver holder 4822 395 91019
Torx bit T10 150mm 4822 395 50456
Torx driver set T6 - T20 ..... 4822 395 50145
Torx driver T10 extended 4822 395 50423

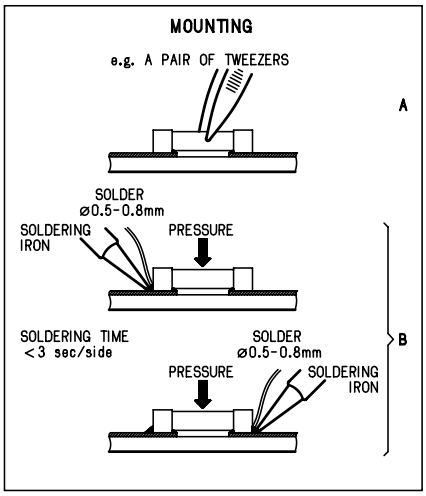
Compact Disc:

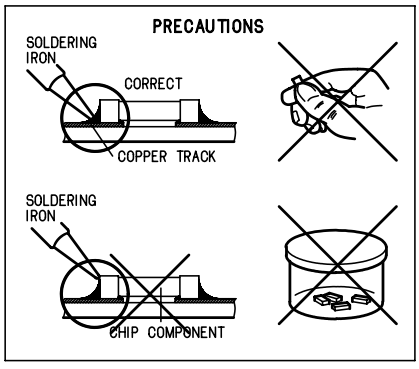
SBC426/426A Test disc 5 + 5A 4822 397 30096
SBC442 Audio Burn-in Test disc 1kHz 4822 397 30155
SBC429 Audio Signals disc 4822 397 30184
Dolby Pro-logic Test Disc 4822 395 10216

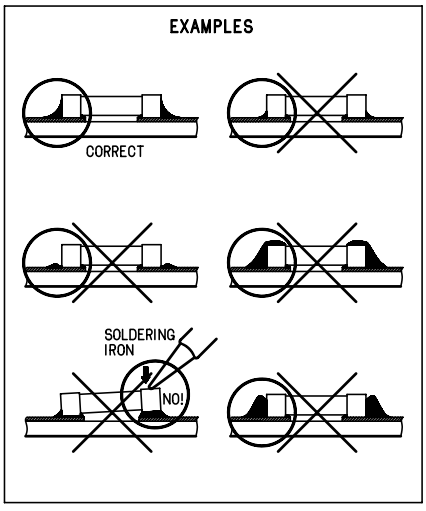
HANDLING CHIP COMPONENTS











ESD

(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB) ESD PROTECTION EQUIPMENT:

Complete Kit ESD3 (small tablemat, wristband, connection box, extention cable and earth cable) 4822 310 10671
Wristband tester 4822 344 13999

(GB)
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used

Safety components are marked by the symbol ⚠.

(NL)
Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

De Veiligheidsonderdelen zijn aangeduid met het symbool ⚠

(F)
Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utiliséés les piéces de rechange identiques à celles spécifiées.

Less composants de sécurité sont marqués ⚠

(D)
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Original zustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

Sicherheitsbauteile sind durch das Symbol ⚠ markiert.

(I)
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

Componenty di sicurezza sono marcati con ⚠

(GB)
After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA.

CLASS 1
LASER PRODUCT

(GB) Warning !

Invisible laser radiation when open.
Avoid direct exposure to beam.

(S) Varning !

Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

(SF) Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

(DK) Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse for stråling.

(F)
"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

DISMANTLING INSTRUCTIONS

Dismantling of the DVD Loader

1) The tray can be manually open by inserting a minus screw driver and push the lever in the direction as shown in Figure 1 to unlock the tray before sliding it out.

2) Slide out the tray and remove the Tray Front assembly (pos 110 + pos 111) as shown in Figure 2.

3) Loosen 5 screws to remove the Cover Top (pos 240).
   - 1 screw each on the left & right side
   - 3 screws on the rear

4) Loosen 4 screws B (see Figure 4) to remove the DVD Loader.

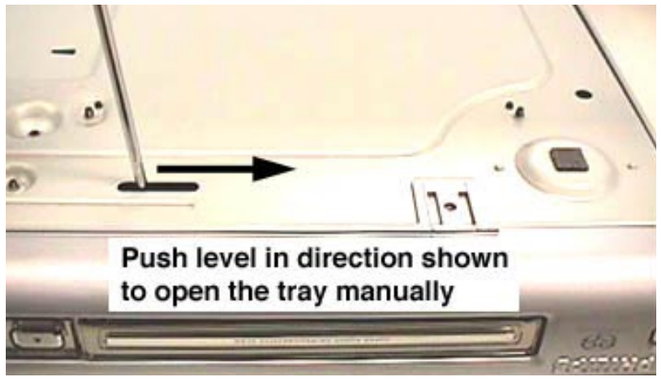


Figure 1

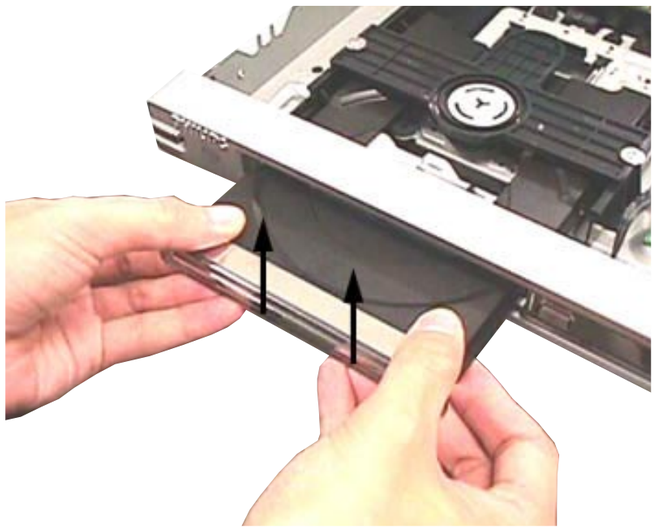


Figure 2

2-1

Dismantling of the AV Board, SD6.1 PL 6CH Board and PSU Board

1) Loosen 7 screws A (see Figure 3) and uncatch 2 catches C1 (see Figure 4) to remove the AV Board (pos 1001).

2) Loosen 4 screws D (see Figure 4) to remove the SD6.1 PL 6CH Board.

3) Loosen 2 screws E and uncatch C2 (see Figure 4) to remove the PSU Board (pos 1004).

Figure 3

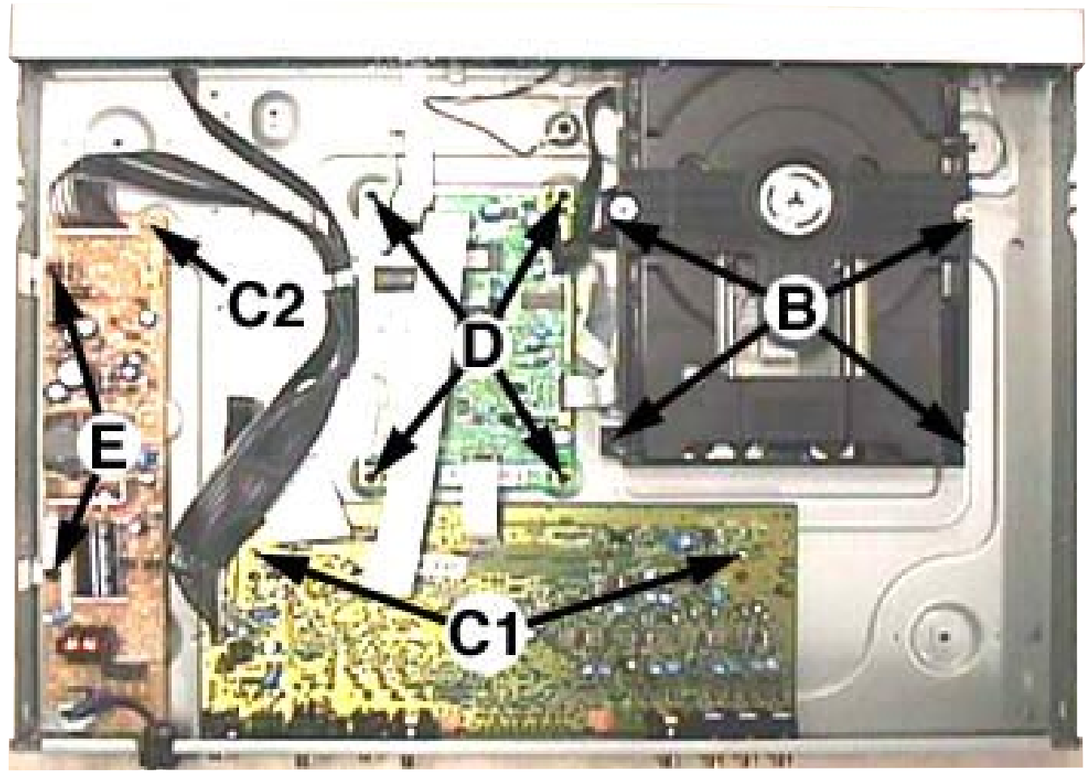
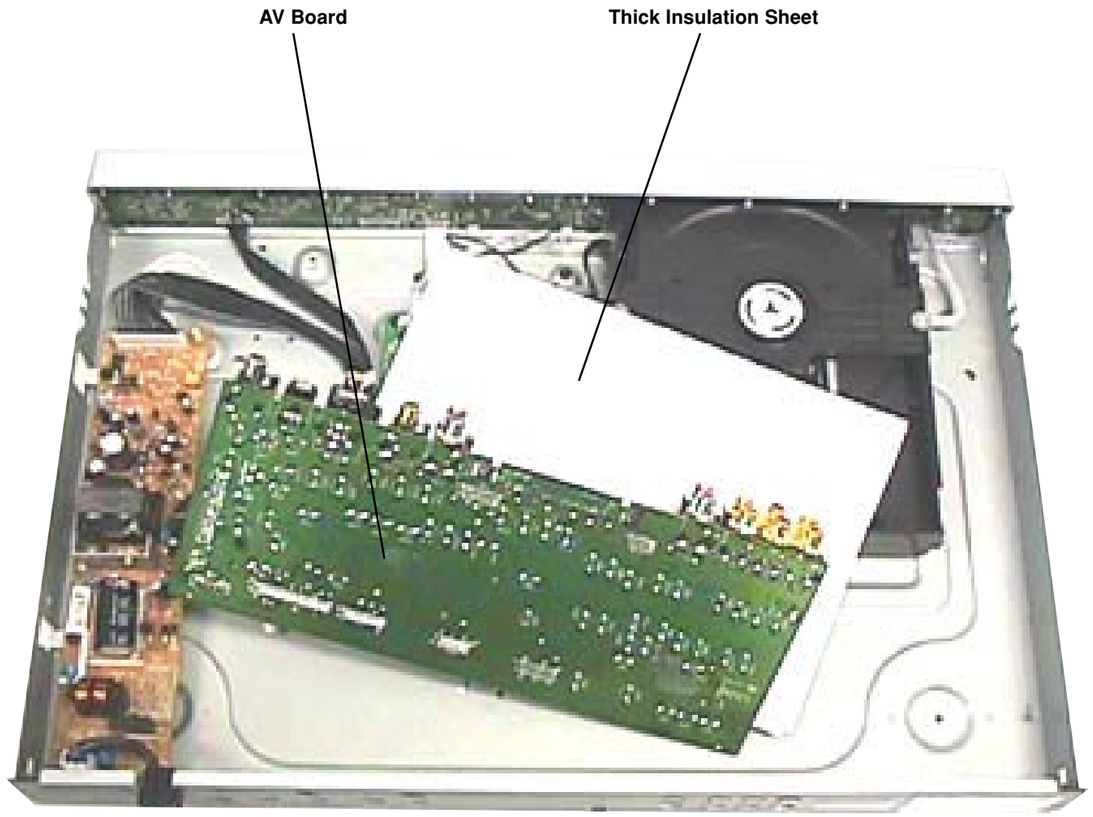
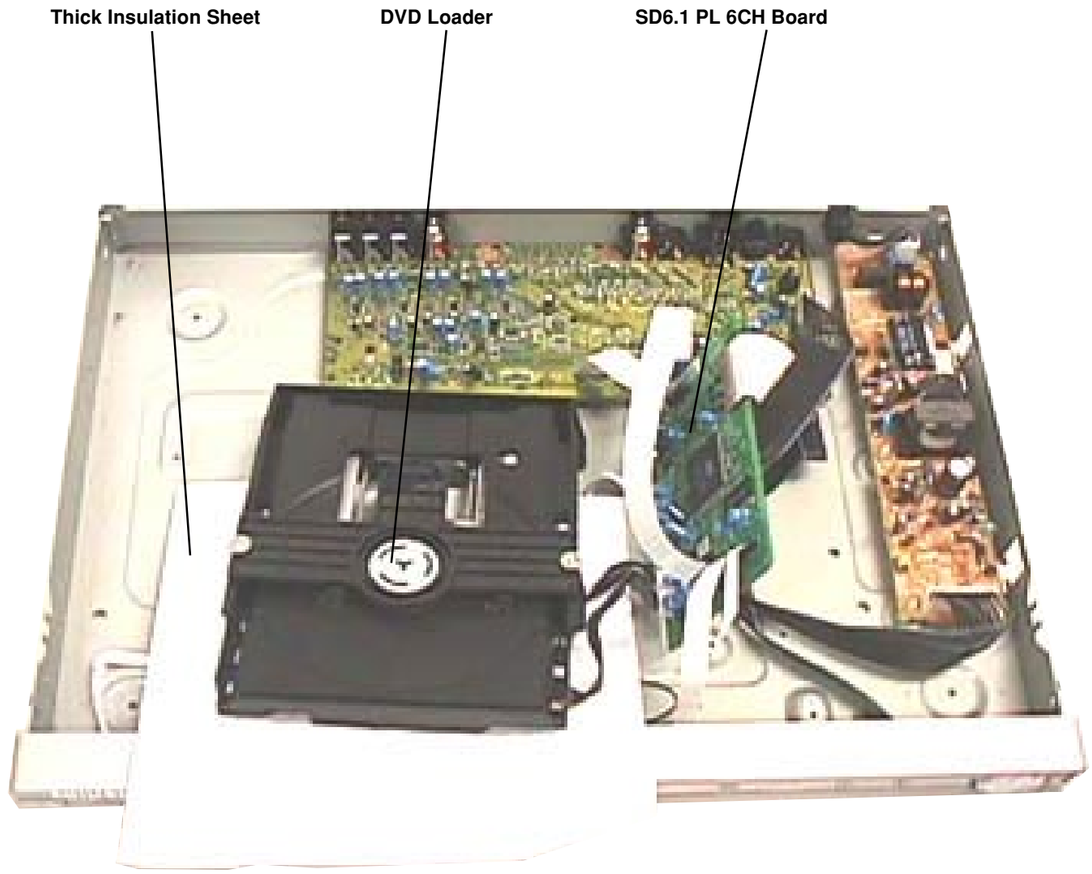


Figure 4

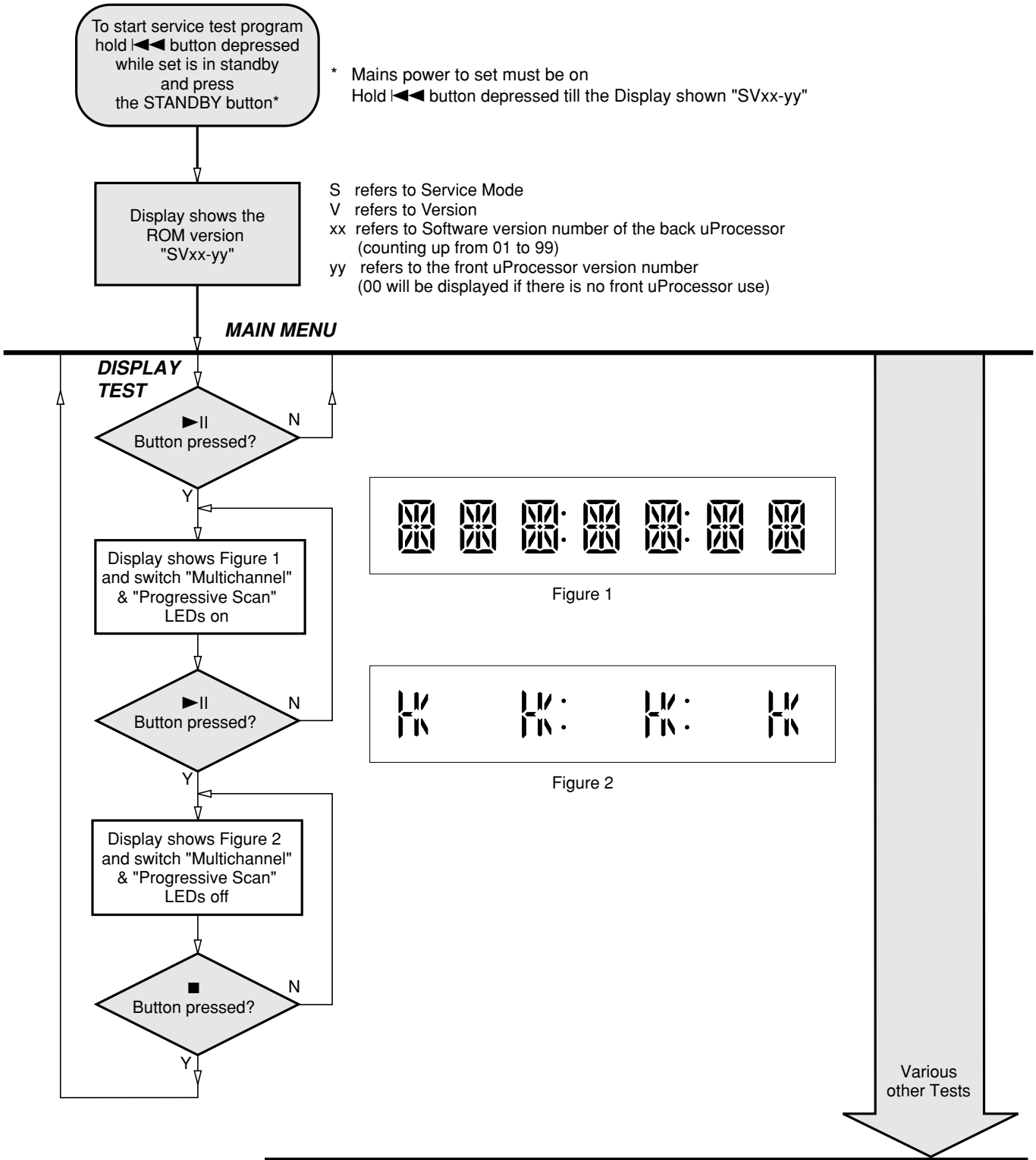
2-2

SERVICE POSITIONS





SERVICE TEST PROGRAM


To start service test program hold I◄◄ button depressed while set is in standby and press the STANDBY button*
* Mains power to set must be on
Hold I◄◄ button depressed till the Display shown "SVxx-yy"
Display shows the ROM version "SVxx-yy"
S refers to Service Mode
V refers to Version
xx refers to Software version number of the back uProcessor (counting up from 01 to 99)
yy refers to the front uProcessor version number (00 will be displayed if there is no front uProcessor use)
MAIN MENU
DISPLAY TEST
►II Button pressed?
N
Y
Display shows Figure 1 and switch "Multichannel" & "Progressive Scan" LEDs on
Figure 1
►II Button pressed?
N
Y
Display shows Figure 2 and switch "Multichannel" & "Progressive Scan" LEDs off
Figure 2
■ Button pressed?
N
Y
Various other Tests

TEST	*Activated with*	*ACTION*
EEPROM FORMAT TEST	I◄◄ I◄◄ to Exit	Load default data. Display shows "NEW". ***Caution!*** ***All presets from the customer will be lost!!***
LEAVE SERVICE TEST PROGRAM	Disconnect mains cord	

Reprogramming of DVD version Matrix

After repair, the customer setting and region code may be lost. Reprogramming will put the set back in the state in which it has left the factory, ie. with the default setting and the allowed region code.

To reprogram do as follows:

1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Press the following buttons on the Remote Control:
   <9> <9> <9> <9> <AUDIO> <1> ..... for DVP720SA/00
   <9> <9> <9> <9> <AUDIO> <2> ..... for DVP720SA/17
   <9> <9> <9> <9> <AUDIO> <3> ..... for DVP720SA/02
   <9> <9> <9> <9> <AUDIO> <4> ..... for DVP720SA/05
   <9> <9> <9> <9> <AUDIO> <5> ..... for DVP720SA/69
   <9> <9> <9> <9> <AUDIO> <6> ..... for DVP720SA/75
   <9> <9> <9> <9> <AUDIO> <7> ..... for DVP720SA/78
4) The display shows '**YYYY-ZZ**' and the tray will close.
   YYYY = model number (eg. 0720, 3900, etc.)
   ZZ = stroke version (eg. 00, 02, 05, etc.)

Procedure for check Software version

1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Press "DISPLAY" button on the Remote control.
4) The TV screen will shows:
   SD6.1 Vxx YYYY-ZZ P QQ
   SERVO: GGGGGGGG REG:D

   xx = version number
   YYYY = model number (eg. 0720, 3900, etc.)
   ZZ = stroke version (eg. 00, 02, 05, etc.)
   P / D = region code
   QQ = version number of front uProcessor
   GGGGGGGG = version for servo code

Procedure to upgrade software

1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Place upgrade CD-ROM onto tray and close.
4) The set will response and display the following:
   - **LOAD** [After the disc is read, the tray will open for you to remove the disc]
   - **ERASE**
   - **WRITE**
   - **ERROR** [if upgrade is unsuccessful]
   - **UPG END -> PHILIPS** [if upgrade is successful]
   - **DISC->CLOSE->LOAD** [Tray will close indicating that the upgrade process is completed]
5) The whole process should not take more than 5 minutes.

Caution: Do not unplug the set until upgrade is completed.

Trade Mode

Trade mode is a feature that will block all set keys when enabled. It is for dealers to prevent customers from removing disc, changing source etc using the set keys. Rotary and Remote Control (RC) keys are still allowed in Trade mode.

To activate Trade Mode:

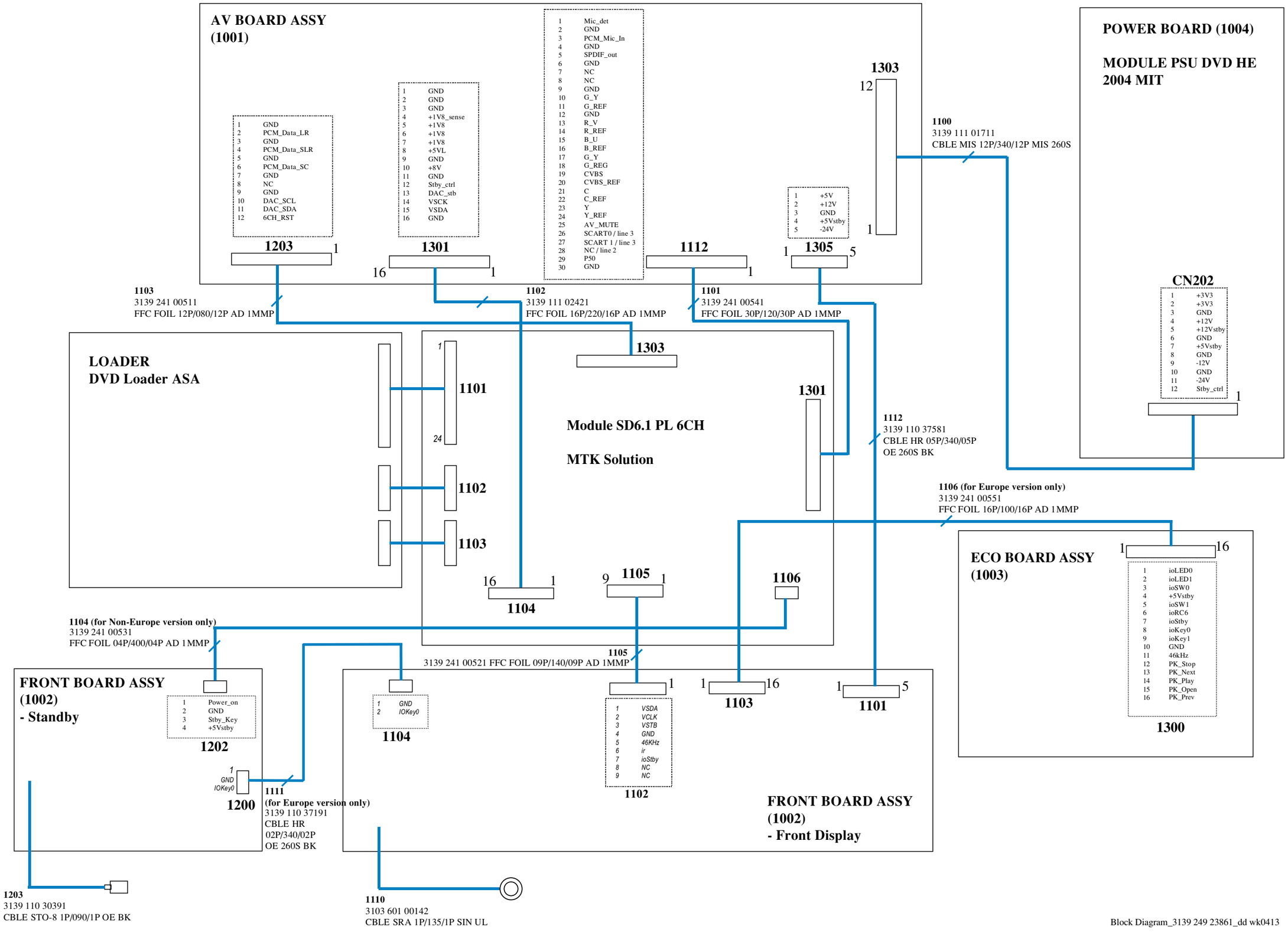
1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Then press buttons <2> <5> <9> on the RC.
4) The display shows '**TRA ON**' and the tray will close. Trade Mode is now enabled.

To deactivate Trade Mode:

1) Power up the set.
2) Open tray by press and hold "STOP"button on the RC.
3) Then press buttons <2> <5> <9> on the RC.
4) The display shows '**TRA OFF**' and the tray will close. Trade Mode is now disabled.

4-1

SET BLOCK DIAGRAM



ECO BOARD

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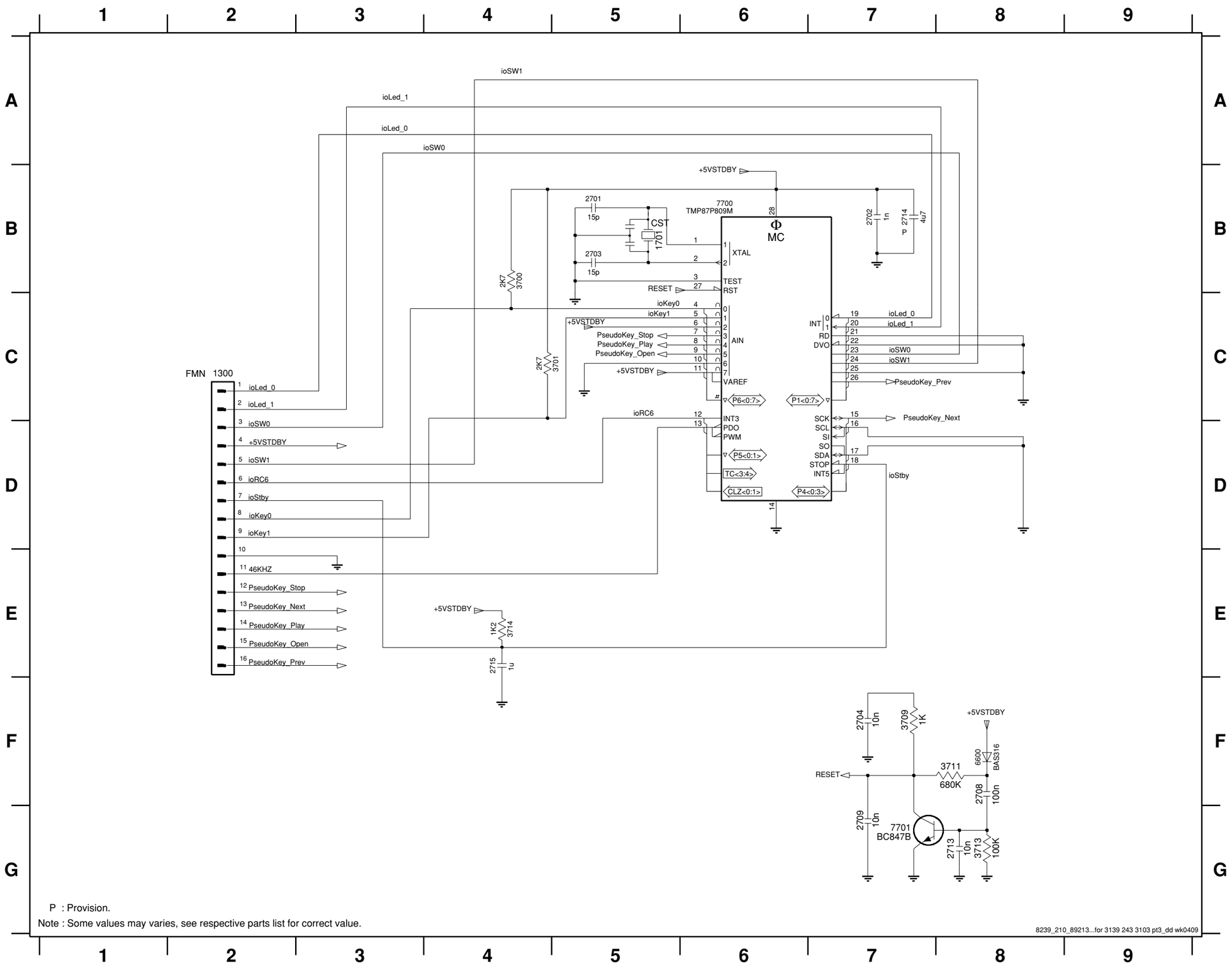
5-2

ECO BOARD - CIRCUIT DIAGRAM

1300 C2
1701 B5
2701 B5
2702 B7
2703 B5
2704 F7
2708 F8
2709 G7
2713 G8
2714 B7
2715 E4
3700 B4
3701 C5
3709 F7
3711 F8
3713 G8
3714 E4
6600 F8
7700 B6
7701 G7

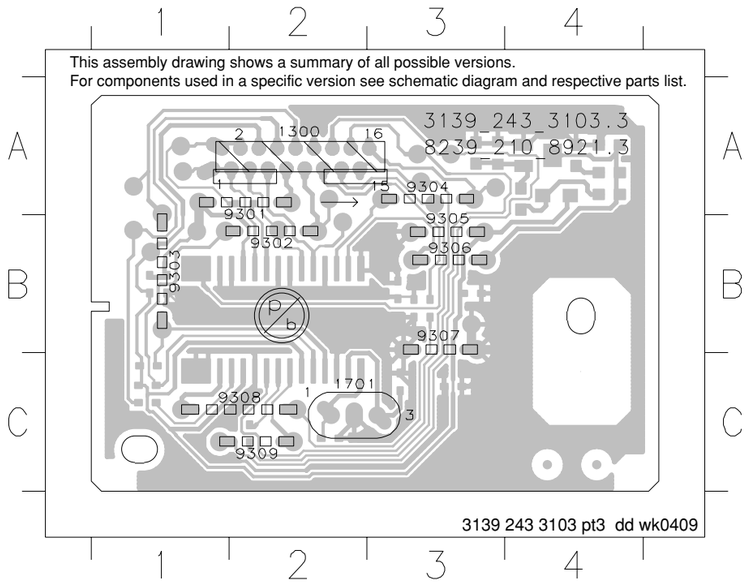


P : Provision.

Note : Some values may varies, see respective parts list for correct value.

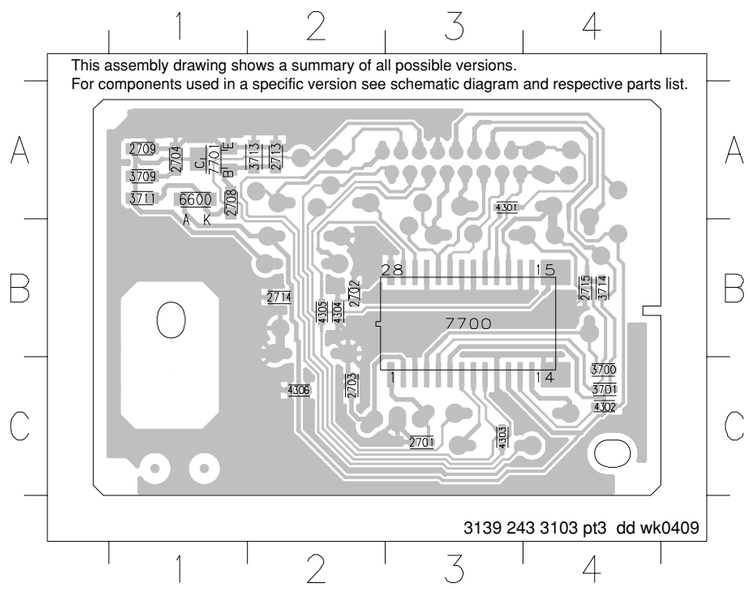
ECO BOARD - COMPONENT LAYOUT

1300 A2
1701 C2
9301 A2
9302 B2
9303 B1
9304 A3
9305 B3
9306 B3
9307 B3
9308 C2
9309 C2



ECO BOARD - CHIP LAYOUT

2701 C3
2702 B2
2703 C2
2704 A1
2708 A1
2709 A1
2713 A2
2714 B2
2715 B4
3700 C4
3701 C4
3709 A1
3711 A1
3713 A2
3714 B4
4301 A3
4302 C4
4303 C3
4304 B2
4305 B2
4306 C2
6600 A1
7700 B3
7701 A1


This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram and respective parts list.
6600
7700
3139 243 3103 pt3 dd wk0409

ELECTRICAL PARTS LIST - ECO BOARD

MISCELLANEOUS

1300	2422 025 18364	Flex Connector 16P
1701	2422 540 98518	RES CER 8MHz

DIODES

6600	4822 130 11397	BAS316

TRANSISTORS & INTEGRATED CIRCUITS

7700	3139 240 50831	TMP87C809BM-'LX3950S50831'
7701	5322 130 60159	BC847B

Note : Only the parts mentioned in this list are normal service spare parts.

FRONT BOARD

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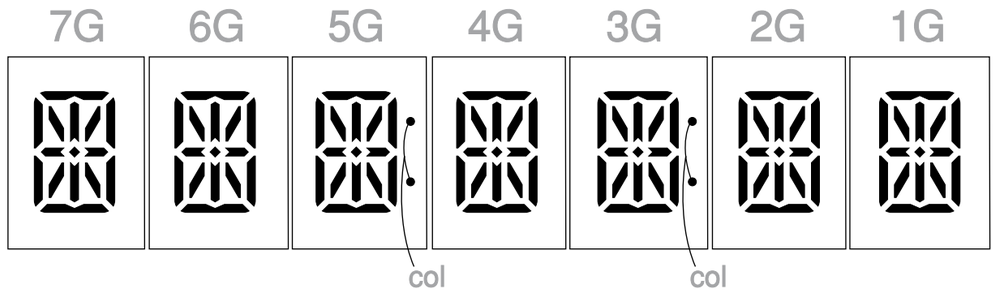
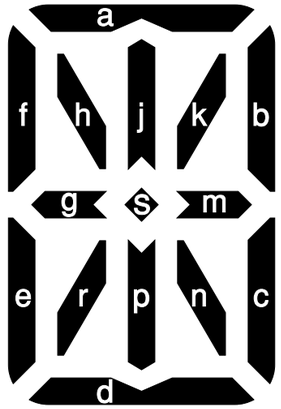
6-1

FTD DISPLAY PIN CONNECTION



(1G - 7G)

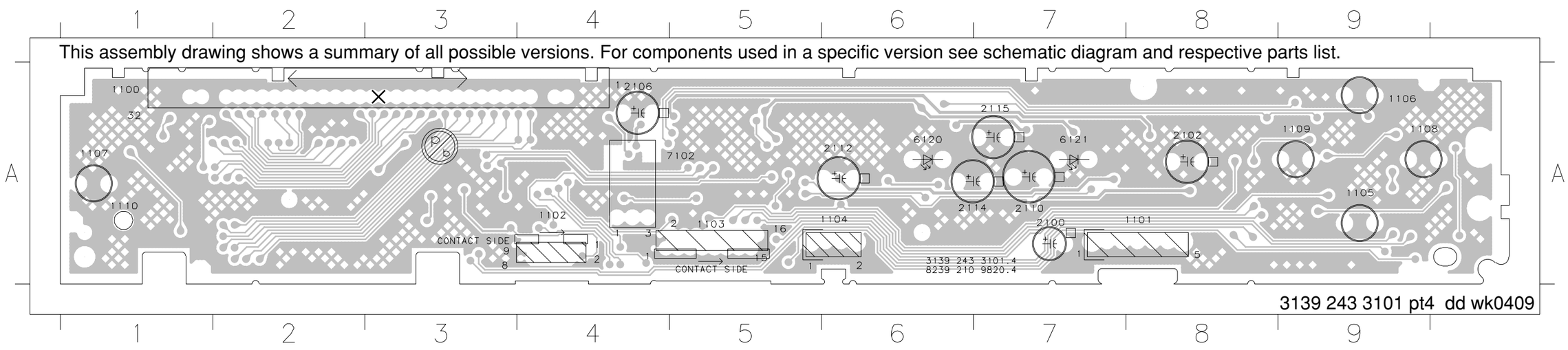


	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a
P2	j , p	j , p	j , p	j , p	j , p	j , p	j , p
P3	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d
P14	-	-	col	-	col	-	-
P15	s	s	s	s	s	s	s

6-2

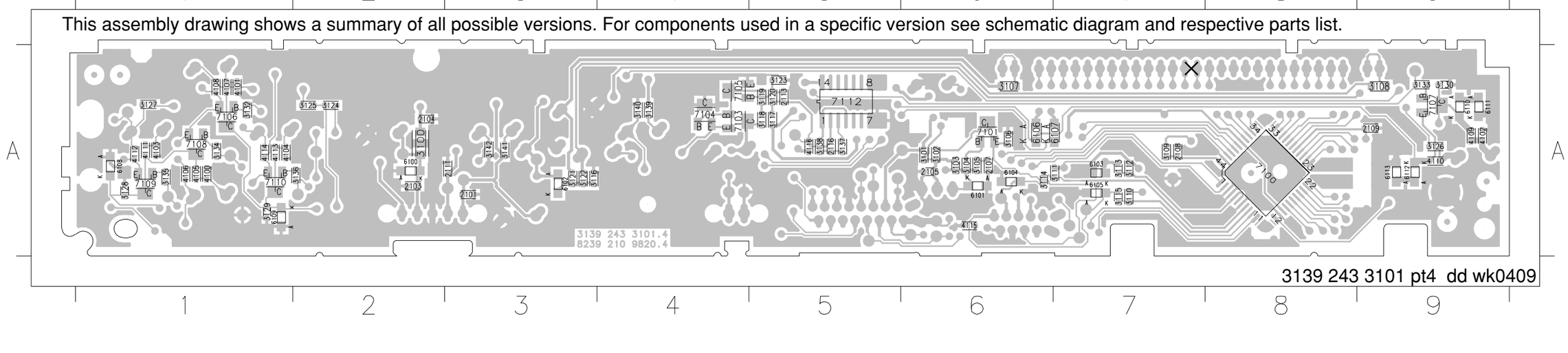
FRONT DISPLAY BOARD - TOP VIEW LAYOUT

1100 A1 1102 A4 1104 A6 1106 A9 1108 A9 1110 A1 2102 A8 2110 A7 2114 A7 6120 A6 7102 A5
1101 A8 1103 A5 1105 A9 1107 A1 1109 A9 2100 A7 2106 A4 2112 A6 2115 A7 6121 A7



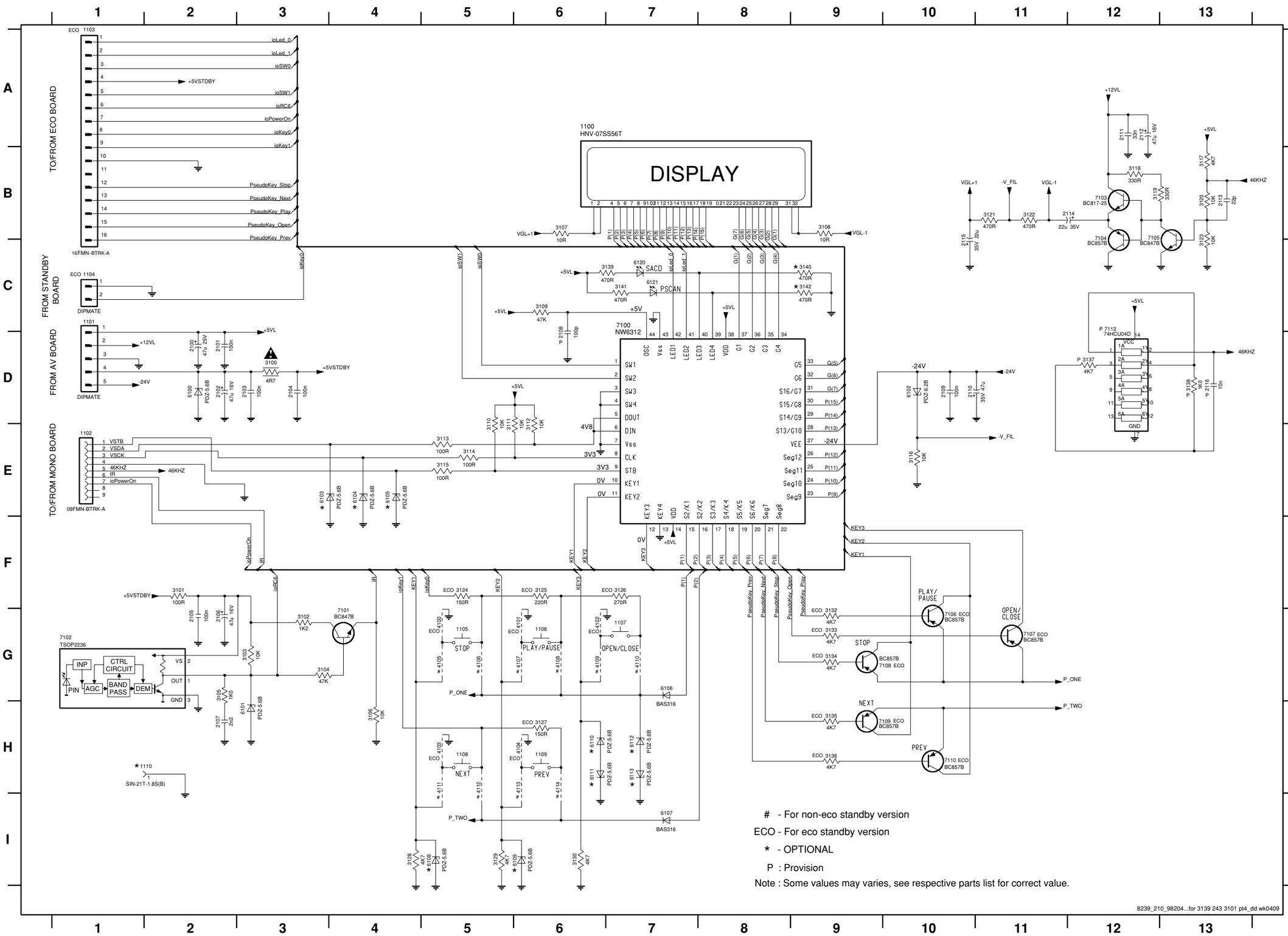
FRONT DISPLAY BOARD - BOTTOM VIEW LAYOUT

2101 A3 2109 A9 3102 A6 3108 A9 3114 A6 3120 A5 3126 A9 3133 A9 3139 A4 4102 A9 4108 A1 4114 A1 6103 A7 6109 A1 7101 A6 7108 A1
2103 A2 2111 A3 3103 A6 3109 A7 3115 A7 3121 A3 3127 A1 3134 A1 3140 A4 4103 A1 4109 A9 4115 A6 6104 A6 6110 A9 7103 A4 7109 A1
2104 A2 2113 A5 3104 A6 3110 A7 3116 A3 3122 A3 3128 A1 3135 A1 3141 A3 4104 A1 4110 A9 4116 A5 6105 A7 6111 A9 7104 A4 7110 A1
2105 A6 2116 A5 3105 A6 3111 A7 3117 A5 3123 A5 3129 A1 3136 A2 3142 A3 4105 A1 4111 A1 6100 A2 6106 A6 6112 A9 7105 A4 7112 A5
2107 A6 3100 A2 3106 A6 3112 A7 3118 A5 3124 A2 3130 A9 3137 A5 4100 A1 4106 A1 4112 A1 6101 A6 6107 A7 6113 A9 7106 A1
2108 A7 3101 A6 3107 A6 3113 A7 3119 A5 3125 A2 3132 A1 3138 A5 4101 A1 4107 A1 4113 A1 6102 A3 6108 A1 7100 A8 7107 A9


This assembly drawing shows a summary of all possible versions. For components used in a specific version see schematic diagram and respective parts list.
3139 243 3101.4
8239 210 9820.4
3139 243 3101 pt4 dd wk0409

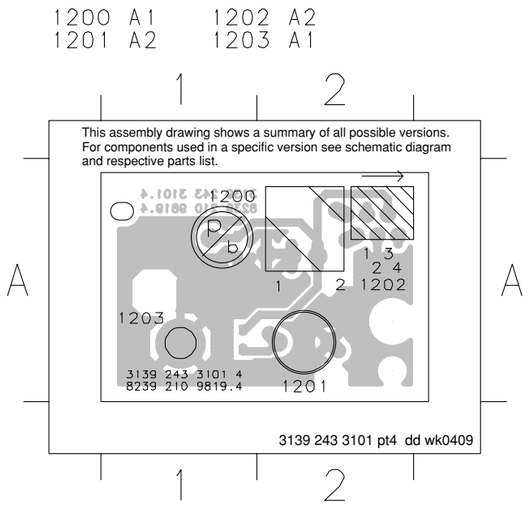
6-3

FRONT DISPLAY BOARD - CIRCUIT DIAGRAM

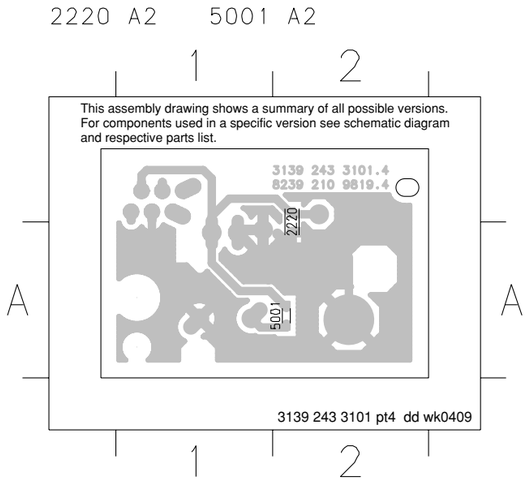


1100 A6
1101 C1
1102 E1
1103 A1
1104 C1
1105 G5
1106 G6
1107 G7
1108 H5
1109 H6
1110 H1
2100 D2
2101 D2
2102 D2
2103 D3
2104 D3
2105 G2
2106 G2
2107 H2
2108 D6
2109 D10
2110 D10
2111 A12
2112 A12
2113 B13
2114 B12
2115 C10
2116 D13
3100 D3
3101 F2
3102 G3
3103 G3
3104 G3
3105 G2
3106 H4
3107 B6
3108 B9
3109 C6
3110 E5
3111 E5
3112 E6
3113 E5
3114 E5
3115 E5
3116 E10
3117 B13
3118 B12
3119 B12
3120 B13
3121 B11
3122 B11
3123 C13
3124 F5
3125 F6
3126 F7
3127 H6
3128 I4
3129 I5
3130 I6
3132 G9
3133 G9
3134 G9
3135 H9
3136 H9
3137 D12
3138 D13
3139 C7
3140 C9
3141 C7
3142 C9
4100 G5
4101 G6
4102 G6
4103 H5
4104 H6
4105 G5
4106 G5
4107 G6
4108 G6
4109 G6
4110 G7
4111 H5
4112 H5
4113 H6
4114 H6
6100 D2
6101 H3
6102 D10
6103 E3
6104 E4
6105 E4
6106 G7
6107 I7
6108 I5
6109 I6
6110 H6
6111 H6
6112 H7
6113 H7
6120 C7
6121 C7
7100 C7
7101 G4
7102 G1
7103 B12
7104 B12
7105 C12
7106 G10
7107 G11
7108 G9
7109 H9
7110 H10
7112 C12

STANDBY BOARD - COMPONENT LAYOUT

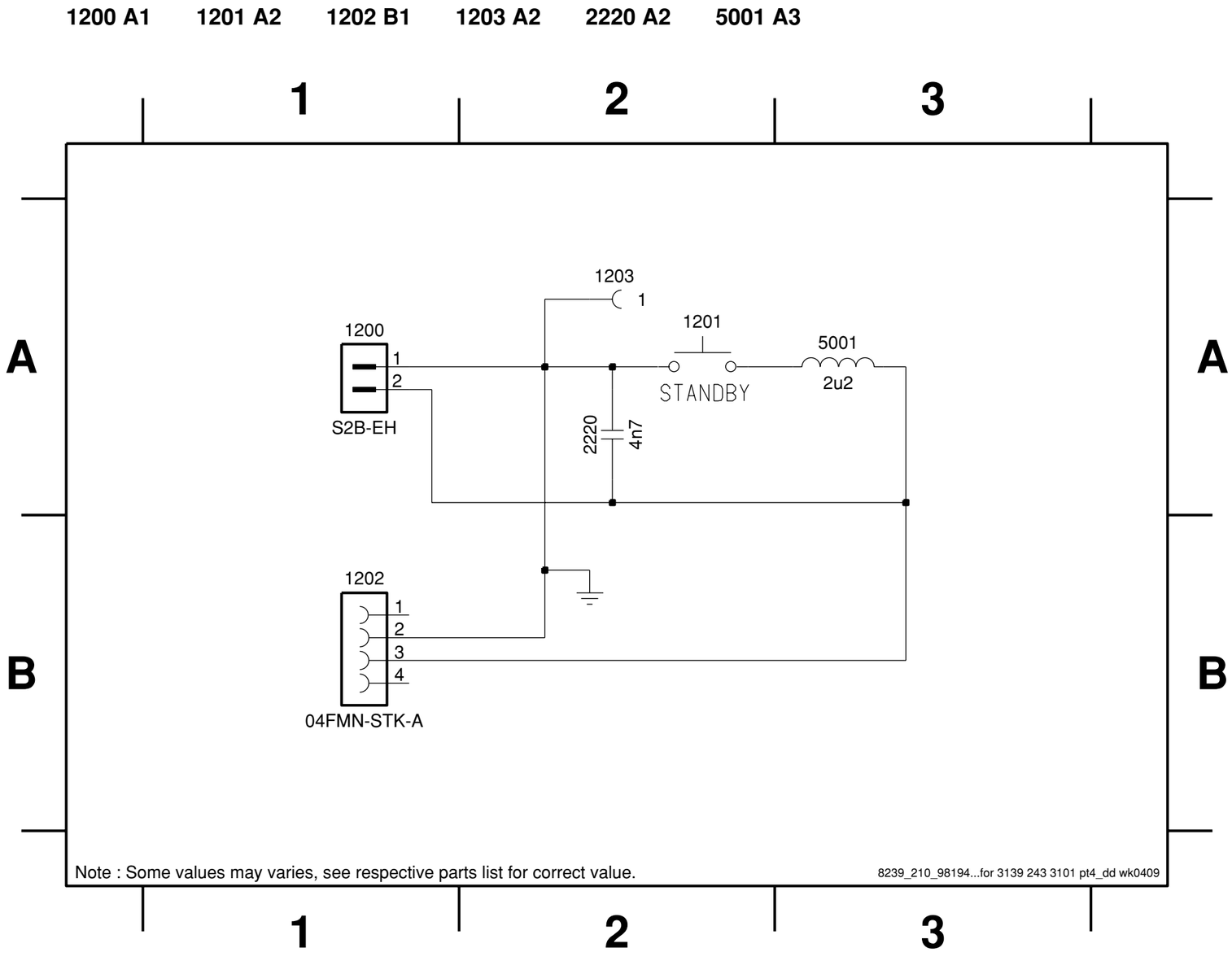


STANDBY BOARD - CHIP LAYOUT


2220 A2
5001 A2
This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram
and respective parts list.
3139 243 3101.4
8239 210 9819.4
2220
5001
3139 243 3101 pt4 dd wk0409

6-4

STANDBY BOARD - CIRCUIT DIAGRAM



6-5

ELECTRICAL PARTS LIST - FRONT BOARD

ELECTRICAL PARTS LIST - FRONT BOARD

MISCELLANEOUS

1100	3139 240 50661	FTD HNV-07SS56T	
1102	2422 025 16586	Flex Connector 9P	
1103	2422 025 18364	Flex Connector 16P	/00/02/05
1105	4822 276 13775	Tact Switch	
1106	4822 276 13775	Tact Switch	
1107	4822 276 13775	Tact Switch	
1108	4822 276 13775	Tact Switch	
1109	4822 276 13775	Tact Switch	
1201	4822 276 13775	Tact Switch	
1202	2422 025 16979	Flex Connector 4P	/69/75

CAPACITORS

2100	4822 124 81286	47uF 20% 16V	
2101	2238 586 59812	100nF +80/-20% 50V	
2102	4822 124 81286	47uF 20% 16V	
2103	2238 586 59812	100nF +80/-20% 50V	
2104	2238 586 59812	100nF +80/-20% 50V	
2105	2238 586 59812	100nF +80/-20% 50V	
2106	4822 124 81286	47uF 20% 16V	
2107	4822 126 14238	2,2nF 50V	
2109	2238 586 59812	100nF +80/-20% 50V	
2110	3198 028 44790	47uF 20% 35V	
2111	4822 126 14549	33nF 16V	
2112	4822 124 81286	47uF 20% 16V	
2113	4822 122 33761	22pF 5% 50V	
2114	3198 028 42290	22uF 20% 35V	
2115	3198 028 42290	22uF 20% 35V	
2220	4822 126 13193	4,7nF 10% 63V	

RESISTORS

3100	4822 117 11152	⚠ 4R7 5%	
3101	4822 051 30101	100R 5% 0,062W	
3102	4822 117 11817	1k2 1% 1/16W	
3103	4822 051 30103	10k 5% 0,062W	
3104	4822 117 12925	47k 1% 0,063W	
3105	4822 051 30102	1k 5% 0,062W	
3106	4822 051 30103	10k 5% 0,062W	
3107	4822 051 20109	10R 5% 0,1W	
3108	4822 051 20109	10R 5% 0,1W	
3109	4822 117 12925	47k 1% 0,063W	
3110	4822 051 30103	10k 5% 0,062W	
3111	4822 051 30103	10k 5% 0,062W	
3112	4822 051 30103	10k 5% 0,062W	
3113	4822 051 30101	100R 5% 0,062W	
3114	4822 051 30101	100R 5% 0,062W	
3115	4822 051 30101	100R 5% 0,062W	
3116	4822 051 30103	10k 5% 0,062W	
3117	4822 051 30472	4k7 5% 0,062W	
3118	4822 051 30331	330R 5% 0,062W	
3119	4822 051 30331	330R 5% 0,062W	
3120	4822 051 30103	10k 5% 0,062W	
3121	4822 051 30471	470R 5% 0,062W	
3122	4822 051 30471	470R 5% 0,062W	
3123	4822 051 30103	10k 5% 0,062W	
3124	4822 051 30151	150R 5% 0,062W	/00/02/05
3125	4822 051 30221	220R 5% 0,062W	/00/02/05
3126	4822 051 30271	270R 5% 0,062W	/00/02/05
3127	4822 051 30151	150R 5% 0,062W	/00/02/05
3128	4822 051 30472	4k7 5% 0,062W	
3129	4822 051 30472	4k7 5% 0,062W	
3130	4822 051 30472	4k7 5% 0,062W	
3132	4822 051 30472	4k7 5% 0,062W	/00/02/05
3133	4822 051 30472	4k7 5% 0,062W	/00/02/05
3134	4822 051 30472	4k7 5% 0,062W	/00/02/05
3135	4822 051 30472	4k7 5% 0,062W	/00/02/05
3136	4822 051 30472	4k7 5% 0,062W	/00/02/05
3139	4822 051 30471	470R 5% 0,062W	
3140	4822 051 30471	470R 5% 0,062W	
3141	4822 051 30471	470R 5% 0,062W	
3142	4822 051 30471	470R 5% 0,062W	
4100	4822 051 30008	0R Jumper 0603	/00/02/05
4101	4822 051 30008	0R Jumper 0603	/00/02/05
4102	4822 051 30008	0R Jumper 0603	/00/02/05
4103	4822 051 30008	0R Jumper 0603	/00/02/05
4104	4822 051 30008	0R Jumper 0603	/00/02/05
4105	4822 051 30008	0R Jumper 0603	/69/75
4106	4822 051 30008	0R Jumper 0603	/69/75
4107	4822 051 30008	0R Jumper 0603	/69/75
4108	4822 051 30008	0R Jumper 0603	/69/75
4109	4822 051 30008	0R Jumper 0603	/69/75
4110	4822 051 30008	0R Jumper 0603	/69/75
4111	4822 051 30008	0R Jumper 0603	/69/75
4112	4822 051 30008	0R Jumper 0603	/69/75
4113	4822 051 30008	0R Jumper 0603	/69/75
4114	4822 051 30008	0R Jumper 0603	/69/75
4115	4822 051 30008	0R Jumper 0603	
4116	4822 051 30008	0R Jumper 0603	

COILS & FILTERS

5001	3198 018 52280	FXD IND SM 0603 2U2 PM10

DIODES

6100	3198 020 55680	DIO REG SM PDZ5.6B
6101	3198 020 55680	DIO REG SM PDZ5.6B
6102	9340 548 54115	DIO REG SM PDZ6.2B
6103	3198 020 55680	DIO REG SM PDZ5.6B
6104	3198 020 55680	DIO REG SM PDZ5.6B
6105	3198 020 55680	DIO REG SM PDZ5.6B
6106	4822 130 11397	BAS316
6107	4822 130 11397	BAS316
6108	3198 020 55680	DIO REG SM PDZ5.6B
6109	3198 020 55680	DIO REG SM PDZ5.6B
6110	3198 020 55680	DIO REG SM PDZ5.6B
6111	3198 020 55680	DIO REG SM PDZ5.6B
6112	3198 020 55680	DIO REG SM PDZ5.6B
6113	3198 020 55680	DIO REG SM PDZ5.6B
6120	9322 190 55676	LED VS LTL-816TDK3
6121	9322 190 55676	LED VS LTL-816TDK3

TRANSISTORS & INTEGRATED CIRCUITS

7100	9322 186 03671	IC SM UPD16312GB-3B4	
7101	5322 130 60159	BC847B	
7102	9322 155 82667	IR Receiver TSOP2236LL1	
7103	4822 130 42804	BC817-25	
7104	4822 130 60373	BC857B	
7105	5322 130 60159	BC847B	
7106	4822 130 60373	BC857B	/00/02/05
7107	4822 130 60373	BC857B	/00/02/05
7108	4822 130 60373	BC857B	/00/02/05
7109	4822 130 60373	BC857B	/00/02/05
7110	4822 130 60373	BC857B	/00/02/05

Note : Only the parts mentioned in this list are normal service spare parts.

AV BOARD

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7-1

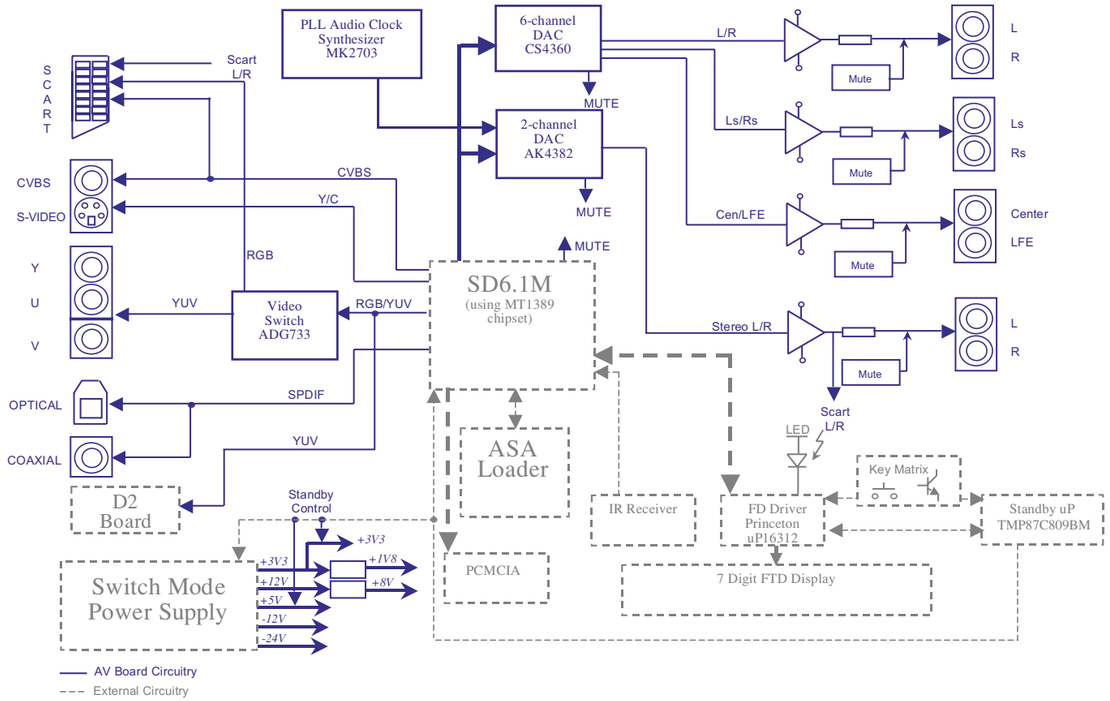
BRIEF INTRODUCTION OF THE AV BOARD

The AV Board consists of the following features :

A. VIDEO OUTPUT
- CVBS
- S-Video
- YUV
- Scart RGB (For Europe Model)
- Progressive Scan

B. AUDIO OUTPUT
- Stereo / 6 Channel
- Coaxial / Optical

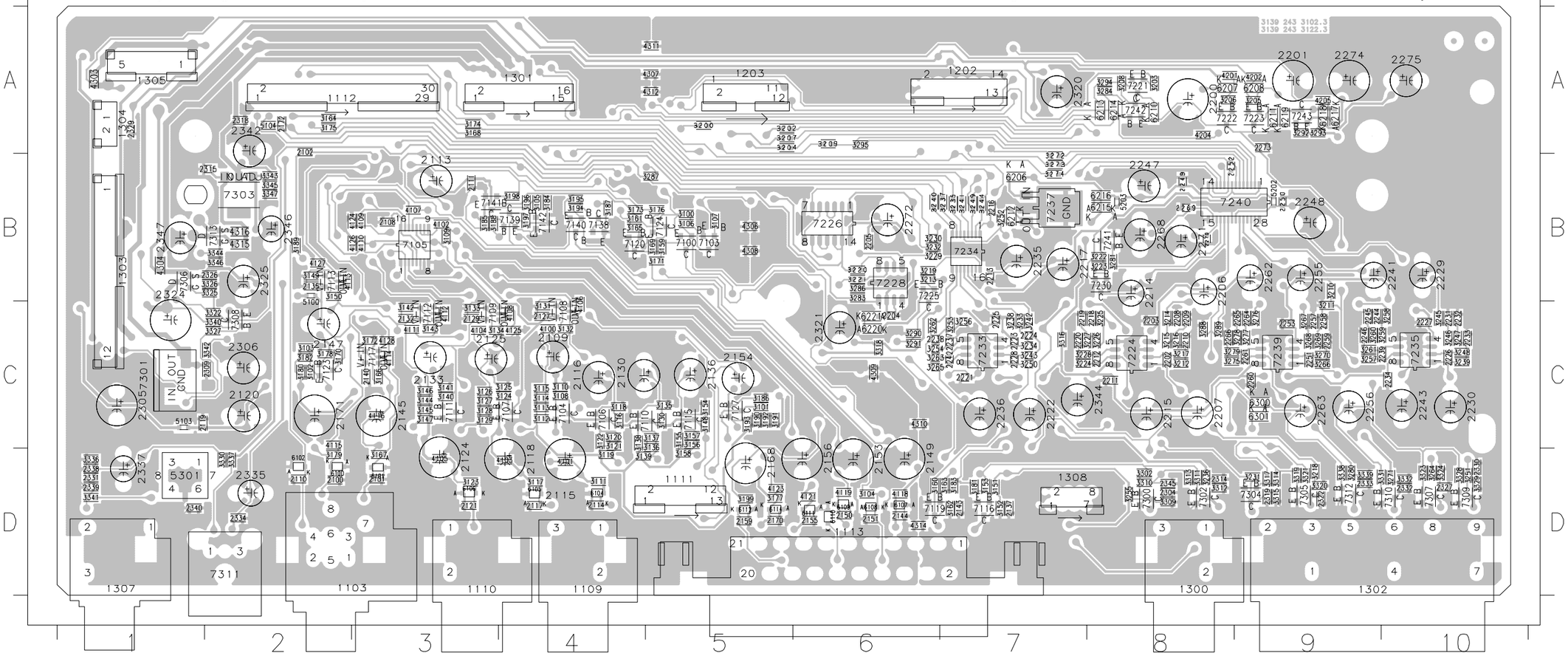
AV BOARD - BLOCK DIAGRAM



7-2

AV BOARD - TOP VIEW LAYOUT

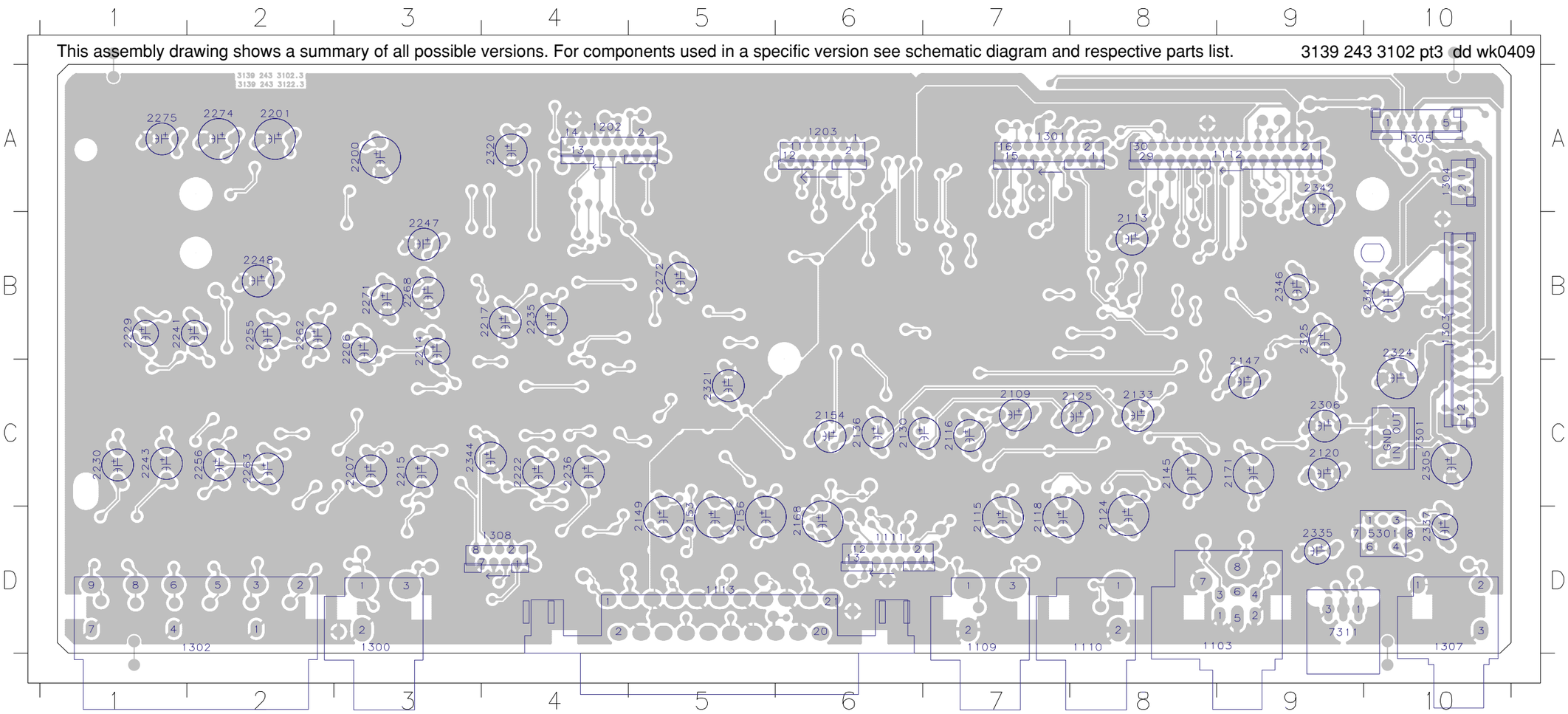
1103 D2	2121 D3	2203 C8	2234 C10	2268 B8	2338 D1	3123 D3	3154 C5	3185 B3	3217 C8	3248 C10	3279 C8	3324 D10	4110 B3	4316 B2	6218 A9	7221 A8
1109 D4	2124 D3	2204 C6	2235 B7	2269 B8	2339 D1	3124 C4	3155 C5	3186 C5	3218 D9	3249 B7	3280 D9	3325 B2	4111 C3	5100 B2	6219 A9	7222 A8
1110 D3	2125 C3	2205 B6	2236 C7	2270 B8	2340 D1	3125 C4	3156 C5	3187 B4	3219 B6	3250 C7	3281 B8	3326 B2	4112 C3	5103 C1	6220 C6	7223 A9
1111 D5	2127 C4	2206 B8	2237 C7	2271 B8	2342 A2	3126 C3	3157 C5	3188 B3	3220 B6	3251 D10	3283 B6	3327 C2	4113 B2	5104 A2	6221 C6	7224 C8
1112 A2	2129 C3	2207 C8	2238 C6	2272 B6	2344 C8	3127 C3	3158 D5	3189 B2	3221 B6	3252 B7	3284 A8	3328 D10	4114 C3	5202 B9	6300 C9	7225 B6
1113 D6	2130 C4	2208 C8	2239 C10	2273 A9	2345 D8	3128 C3	3159 B5	3190 C5	3222 B8	3253 C7	3286 B6	3329 D10	4115 C2	5203 B8	6301 C9	7226 B6
1202 A7	2132 C3	2209 C8	2241 B10	2274 A9	2346 B2	3129 C3	3160 D6	3191 C5	3223 B8	3254 C6	3287 B5	3330 D2	4116 C3	5301 D1	7100 B5	7228 B6
1203 A5	2133 C3	2210 C8	2242 C7	2275 A10	2347 B1	3130 C5	3161 B4	3192 C5	3224 C7	3255 D8	3288 C8	3331 D9	4118 D6	6100 D2	7103 B5	7230 B8
1300 D8	2135 B2	2211 C8	2243 C10	2304 D8	3100 B5	3131 C4	3162 D7	3193 C5	3225 C8	3256 C7	3289 C8	3332 D10	4119 D6	6101 D3	7104 C4	7233 C7
1301 A4	2136 C5	2212 C8	2244 C9	2305 C1	3101 C5	3132 C4	3163 D7	3194 B4	3226 C8	3257 C9	3290 C6	3336 D1	4121 D6	6102 D2	7105 B3	7234 B7
1302 D9	2137 D7	2213 B7	2245 C9	2306 C2	3102 C2	3133 C3	3164 A2	3195 B4	3227 C7	3258 C10	3291 C6	3337 D2	4123 D5	6104 D4	7106 C4	7235 C10
1303 B1	2140 C3	2214 B8	2246 C9	2309 C2	3103 C2	3134 C3	3165 B4	3196 B4	3228 C7	3259 C10	3292 A9	3338 D9	4124 B3	6105 D4	7107 C4	7237 B7
1304 A1	2143 D7	2215 C8	2247 B8	2314 D8	3104 D6	3135 C5	3166 C3	3197 B4	3229 B6	3260 C9	3293 A9	3339 D9	4125 C4	6106 D3	7108 C4	7239 C9
1305 A1	2144 D6	2216 B7	2248 B9	2315 B2	3105 B4	3136 C5	3167 D3	3198 B4	3230 B6	3261 C9	3294 A8	3340 C2	4126 B3	6107 D6	7109 C3	7240 B9
1307 D1	2145 C3	2217 B7	2249 B8	2318 A2	3106 B5	3137 C5	3168 A3	3199 D5	3231 D9	3262 C6	3295 A6	3341 D1	4127 B2	6108 D6	7110 C4	7241 B8
1308 D7	2147 C2	2218 C8	2250 B9	2319 D9	3107 B5	3138 C4	3169 B5	3200 A5	3232 B6	3263 C6	3302 D8	3342 C2	4128 C3	6109 D6	7111 C3	7242 A8
2100 D2	2149 D6	2219 C7	2251 C9	2320 A7	3108 C4	3139 D4	3170 C2	3202 A5	3233 C7	3264 D10	3309 D8	3343 B2	4201 A8	6110 D6	7112 C3	7243 A9
2101 D3	2150 D6	2220 C7	2252 B8	2321 C6	3109 B3	3140 C3	3171 B5	3203 A8	3234 C7	3265 C6	3310 D8	3344 B2	4202 A9	6111 D6	7113 B2	7300 D8
2102 A2	2151 D6	2221 C7	2253 C9	2322 D9	3110 C4	3141 C3	3172 C3	3204 A5	3235 B7	3266 C9	3311 D8	3345 B2	4204 A8	6112 D5	7115 C5	7301 C1
2108 B3	2153 D6	2222 C7	2255 B9	2324 B1	3111 D4	3142 C3	3173 B4	3205 A9	3236 D8	3267 C9	3312 D8	3346 B2	4205 A9	6114 D5	7116 D7	7302 D8
2109 C4	2154 C5	2223 C7	2256 C9	2325 B2	3112 C4	3143 C3	3174 A3	3206 A8	3237 B7	3268 C9	3313 D8	3347 B2	4303 A1	6206 B7	7117 C3	7303 B2
2110 D2	2155 D6	2224 C7	2257 C9	2326 B2	3113 C4	3144 C3	3175 A2	3207 A5	3238 C7	3269 C9	3314 D9	4100 C4	4304 B1	6207 A8	7119 D6	7304 D9
2111 B3	2156 D6	2225 C7	2258 C9	2327 D10	3114 C4	3145 C3	3176 B5	3208 A8	3239 C10	3270 C9	3315 D9	4101 D4	4306 B5	6208 A9	7120 B4	7305 D9
2113 B3	2159 D5	2226 C10	2259 C9	2329 A1	3115 C4	3146 C3	3177 D5	3209 A6	3240 B6	3271 D10	3316 C7	4102 B3	4307 A5	6210 A8	7123 C2	7306 B1
2114 D4	2168 D5	2227 C10	2260 C9	2330 D10	3116 C4	3147 C3	3178 C2	3210 B9	3241 B7	3272 B7	3317 D9	4103 D4	4308 B5	6211 A9	7124 B5	7307 D10
2115 D4	2170 D5	2228 C7	2261 C9	2331 D1	3117 D4	3148 C5	3179 D2	3211 C9	3242 C7	3273 B7	3318 C6	4104 C3	4309 C6	6212 B7	7127 C5	7308 C2
2116 C4	2171 C2	2229 B10	2262 B9	2332 D10	3118 C4	3149 B2	3180 C2	3212 C8	3243 C7	3274 B7	3319 D9	4105 D3	4310 C6	6213 A8	7138 B4	7309 D10
2117 D4	2172 A2	2230 C10	2263 C9	2333 D9	3119 D4	3150 B2	3181 D7	3213 B6	3244 B7	3275 C8	3320 D9	4106 C4	4311 A5	6214 A8	7139 B4	7310 D10
2118 D4	2200 A8	2231 C10	2264 C9	2334 D2	3120 C4	3151 D7	3182 C2	3214 C8	3245 C10	3276 C9	3321 D9	4107 B3	4312 A5	6215 B8	7140 B4	7311 D2
2119 C1	2201 A9	2232 C10	2265 C9	2335 D2	3121 C4	3152 D7	3183 D7	3215 C8	3246 C10	3277 C9	3322 C2	4108 C4	4314 D6	6216 B8	7141 B3	7312 D9
2120 C2	2202 C8	2233 C10	2266 C8	2337 D1	3122 C4	3153 D7	3184 B4	3216 C8	3247 C10	3278 C9	3323 D10	4109 B3	4315 B2	6217 A9	7142 B4	7313 B2



7-3

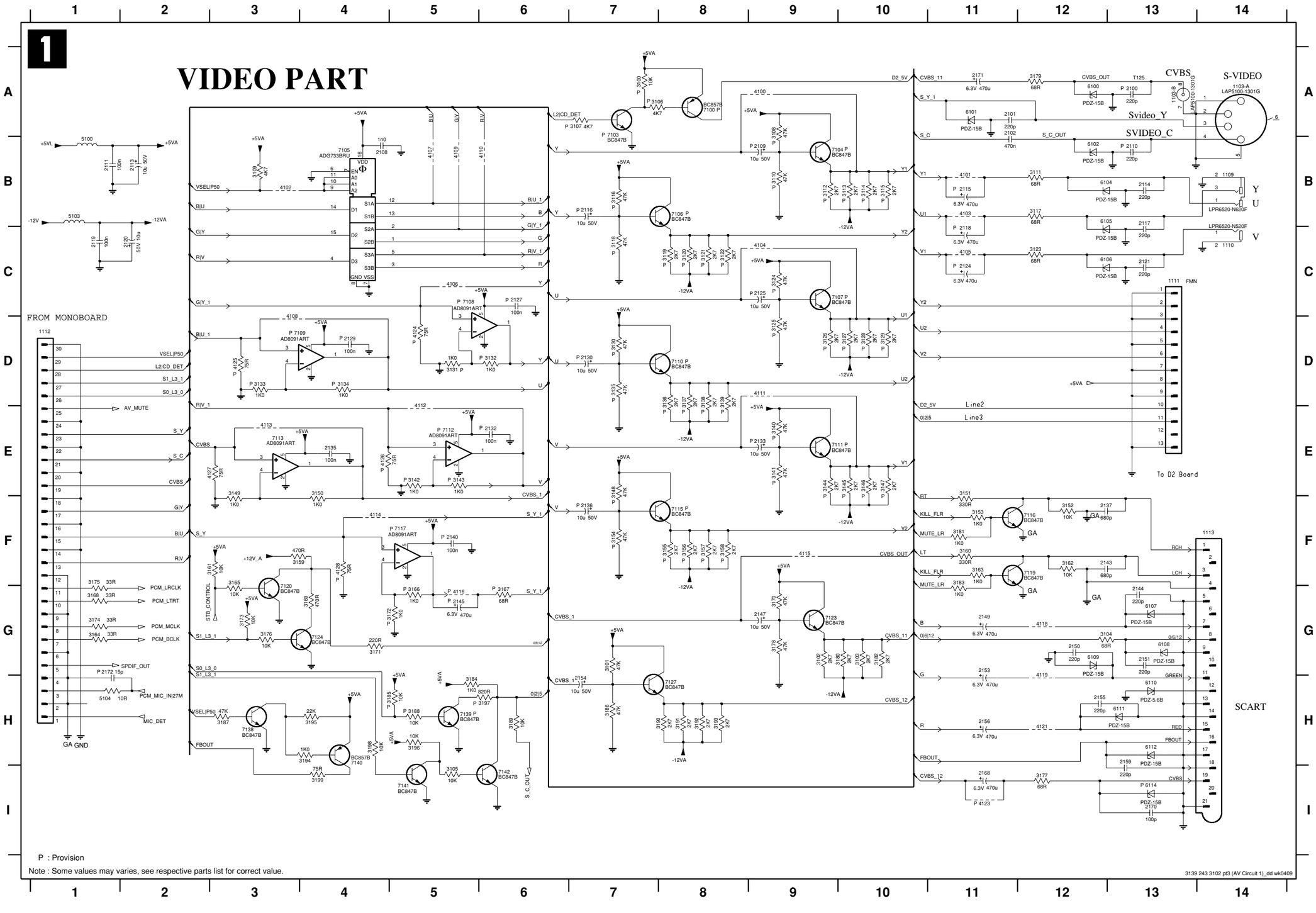
AV BOARD - BOTTOM VIEW LAYOUT

1103 D8	1113 D5	1302 D2	1308 D4	2118 D7	2133 C8	2153 D5	2200 A3	2215 C3	2235 B4	2248 B2	2268 B3	2305 C10	2325 B9	2346 B9
1109 D7	1202 A4	1303 B10	2109 C7	2120 C9	2136 C6	2154 C6	2201 A2	2217 B4	2236 C4	2255 B2	2271 B3	2306 C9	2335 D9	2347 B10
1110 D8	1203 A6	1304 A10	2113 B8	2124 D8	2145 C8	2156 D5	2206 B3	2222 C4	2241 B1	2256 C2	2272 B5	2320 A4	2337 D10	5301 D10
1111 D6	1300 D3	1305 A10	2115 D7	2125 C8	2147 C9	2168 D6	2207 C3	2229 B1	2243 C1	2262 B2	2274 A2	2321 C5	2342 A9	7301 C10
1112 A9	1301 A7	1307 D10	2116 C7	2130 C6	2149 D5	2171 C9	2214 B3	2230 C1	2247 B3	2263 C2	2275 A1	2324 B10	2344 C3	7311 D9



7-4

AV BOARD - CIRCUIT DIAGRAM (PART 1)



1103-A A14	3163 F11	4101 B11	5100 B1
1103-B A13	3164 G1	4102 B3	5103 B1
1109 B14	3165 F3	4103 C11	5104 H1
1110 C14	3166 G5	4104 C5	6100 A12
1111 C13	3167 G6	4105 B5	6101 A11
1112 D1	3168 G1	4107 D3	6102 B12
1113 F13	3169 G4	4108 B5	6104 B12
2100 A13	3170 G9	4109 B6	6105 B12
2101 A11	3171 G4	4110 B6	6106 C12
2102 A11	3172 G5	4111 D9	6107 G13
2108 B4	3173 G3	4112 E5	6108 G13
2109 B9	3174 G1	4113 E3	6109 G12
2110 B13	3175 F1	4114 F4	6110 H13
2111 B1	3176 G3	4115 F9	6111 H13
2113 B2	3177 I12	4116 G5	6112 H13
2114 B13	3178 G9	4118 G12	6114 I13
2115 B11	3179 A12	4119 H12	7100 A8
2116 B7	3180 G10	4121 H12	7103 B7
2117 B13	3181 F11	4123 I11	7104 B9
2118 C11	3182 G10	4124 D5	7105 B4
2119 C1	3183 F11	4125 D3	7106 B8
2120 C2	3184 H5	4126 E4	7107 C9
2121 C13	3185 H5	4127 E3	7108 C5
2124 C11	3186 H7	4128 F4	7109 D3
2125 C9	3187 H3	5100 B1	7110 D8
2127 C6	3188 H5	5103 B1	7111 E9
2129 D4	3189 H6	5104 H1	7112 E5
2130 D7	3190 H8	6100 A12	7113 E3
2132 E6	3191 H8	6101 A11	7115 F8
2133 E9	3192 H8	6102 B12	7116 F12
2135 E4	3193 H8	6104 B12	7117 F5
2136 F7	3194 H4	6105 B12	7119 F12
2137 F12	3195 H4	6106 C12	7120 G3
2140 F5	3196 H5	6107 G13	7123 G9
2143 F12	3197 H6	6108 G13	7124 G4
2144 G13	3198 H4	6109 G12	7127 H8
2145 G5	3199 I4	6110 H13	7138 H3
2147 G9	4100 A9	6111 H13	7139 H5
2149 G11	4101 B11	6112 H13	7140 H4
2150 G12	4102 B3	6114 I13	7141 I5
2151 G13	4103 B11	7100 A8	7142 I6
2153 G11	4104 C9	7103 B7	
2154 H7	4105 C11	7104 B9	
2155 H12	4106 C5	7105 B4	
2156 H11	4107 B5	7106 B8	
2159 H13	4108 D3	7107 C9	
2168 I11	4109 B5	7108 C5	
2170 I13	4110 B6	7109 D3	
2171 A11	4111 D9	7110 D8	
2172 H1	4112 E5	7111 E9	
3100 A7	4113 E3	7112 E5	
3101 G7	4114 F4	7113 E3	
3102 G9	4115 F9	7115 F8	
3103 G10	4116 G5	7116 F12	
3104 G12	4118 G12	7117 F5	
3105 I5	4119 H12	7119 F12	
3106 A7	4121 H12	7120 G3	
3107 A7	4123 I11	7123 G9	
3108 A9	4124 D5	7124 G4	
3109 B3	4125 D3	7127 H8	
3110 B9	4126 E4	7138 H3	
3111 B12	4127 E3	7139 H5	
3112 B9	4128 F4	7140 H4	
3113 B10	5100 B1	7141 I5	
3114 B10	5103 B1	7142 I6	
3115 B10	5104 H1		
3116 B7	6100 A12		
3117 B12	6101 A11		
3118 C7	6102 B12		
3119 C8	6104 B12		
3120 C8	6105 B12		
3121 C8	6106 C12		
3122 C8	6107 G13		
3123 C12	6108 G13		
3124 C9	6109 G12		
3125 D9	6110 H13		
3126 D9	6111 H13		
3127 D10	6112 H13		
3128 D10	6114 I13		
3129 D10	7100 A8		
3130 D7	7103 B7		
3131 D5	7104 B9		
3132 D6	7105 B4		
3133 D3	7106 B8		
3134 D4	7107 C9		
3135 D7	7108 C5		
3136 D8	7109 D3		
3137 D8	7110 D8		
3138 D8	7111 E9		
3139 D8	7112 E5		
3140 E9	7113 E3		
3141 E9	7115 F8		
3142 E5	7116 F12		
3143 E5	7117 F5		
3144 E9	7119 F12		
3145 E10	7120 G3		
3146 E10	7123 G9		
3147 E10	7124 G4		
3148 E7	7127 H8		
3149 E3	7138 H3		
3150 E4	7139 H5		
3151 E11	7140 H4		
3152 F12	7141 I5		
3153 F11	7142 I6		
3154 F7			
3155 F8			
3156 F8			
3157 F8			
3158 F8			
3159 F3			
3160 F11			
3161 F3			
3162 F12			

7-5

AV BOARD - CIRCUIT DIAGRAM (PART 2)

The part is mute circuit for eco version while STANDBY ON/OFF

P : Provision

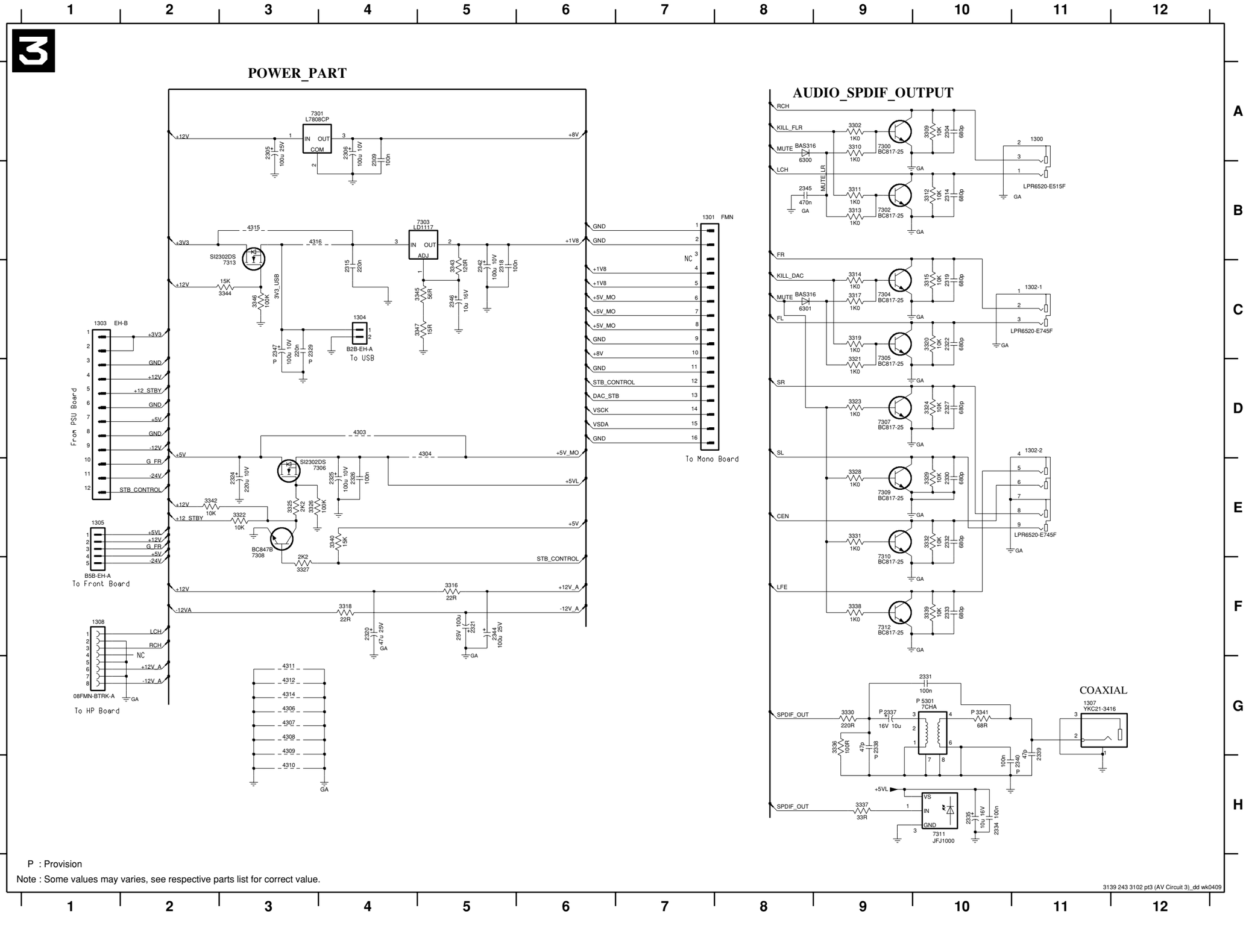
Note : Some values may varies, see respective parts list for correct value.

3139 243 3102 pt3 (AV Circuit 2)_dd wk0409

1202 A4
1203 B2
2200 B6
2201 B7
2202 B12
2203 B12
2204 B3
2205 C5
2206 C9
2207 C12
2208 C10
2209 C11
2210 C11
2211 C11
2212 D12
2213 D3
2214 D9
2215 D12
2216 D2
2217 D3
2218 D10
2219 D10
2220 D11
2221 D7
2222 D7
2223 E6
2224 E5
2225 E7
2226 E12
2227 E12
2228 E7
2229 E9
2230 E12
2231 E10
2232 E11
2233 E11
2234 F11
2235 F3
2236 F7
2237 E6
2238 F5
2239 F12
2241 F9
2242 G7
2243 G12
2244 G10
2245 G10
2246 G11
2247 G4
2248 G5
2249 G4
2250 G5
2251 H12
2252 I2
2253 H12
2255 H9
2256 H12
2257 H10
2258 H11
2259 H11
2260 H11
2261 I12
2262 I9
2263 I12
2264 I10
2265 I10
2266 I11
2268 J6
2269 J7
2270 J7
2271 J7
2272 B5
2273 B8
2274 A8
2275 A9
3200 A1
3202 A1
3203 A5
3204 B1
3205 B7
3206 B6
3207 B1
3208 B5
3209 B1
3210 B8
3211 B8
3212 B12
3213 C7
3214 C10
3215 C10
3216 C11
3217 C11
3218 C13
3219 C7
3220 C1
3221 C1
3222 C7
3223 C7
3224 C12
3225 D10
3226 D10
3227 D11
3228 D11
3229 D4
3230 D4
3231 D13
3232 D2
3233 D5
3234 D6
3235 D1
3236 D8
3237 E1
3238 E6
3239 E12
3240 E1
3241 E1
3242 E5
3243 E6
3244 E1
3245 E10
3246 E10
3247 E11
3248 E11
3249 E1
3250 E6
3251 E13
3252 F1
3253 F5
3254 F6
3255 F8
3256 F5
3257 F12
3258 F10
3259 F10
3260 F11
3261 F11
3262 G5
3263 G6
3264 F13
3265 G6
3266 G12
3267 H10
3268 H10
3269 H11
3270 H11
3271 H13
3272 H2
3273 I2
3274 I2
3275 I12
3276 I10
3277 I11
3278 I11
3279 I11
3280 I13
3281 D6
3283 C1
3284 B5
3286 C2
3287 B3
3288 D8
3289 D8
3290 C8
3291 C8
3292 A8
3293 A8
3294 B5
3295 E1
4201 A6
4202 A7
4204 G2
4205 A9
5202 G4
5203 G4
6205 F1
6206 F1
6207 B6
6208 B7
6210 B6
6211 B7
6212 F1
6213 A5
6214 B5
6215 G3
6216 G3
6217 A8
6218 A9
6219 B8
6220 C2
6221 C2
7221 B6
7222 B6
7223 B7
7224-A C12
7224-B D12
7225 C8
7226-A C4
7226-B C4
7226-C C4
7226-D C4
7228 C2
7230 D8
7233-A E7
7233-B F7
7234 D2
7235-A F12
7235-B G12
7237 F2
7239-A H12
7239-B I12
7240 G3
7241 D7
7242 B5
7243 A8

7-6

AV BOARD - CIRCUIT DIAGRAM (PART 3)



1300 A11
1301 B7
1302-1 C11
1302-2 D11
1303 C1
1304 C4
1305 E1
1307 G11
1308 F1
2304 A10
2305 A3
2306 A4
2309 A4
2314 B10
2315 C4
2318 C5
2319 C10
2320 F4
2321 F5
2322 C10
2324 E3
2325 E4
2326 E4
2327 D10
2329 C3
2330 E10
2331 G10
2332 E10
2333 F10
2334 H10
2335 H10
2337 G9
2338 G9
2339 G11
2340 H11
2342 C5
2344 F5
2345 B8
2346 C5
2347 C3
3302 A9
3309 A10
3310 A9
3311 B9
3312 B10
3313 B9
3314 C9
3315 C10
3316 F5
3317 C9
3318 F4
3319 C9
3320 C10
3321 D9
3322 E3
3323 D9
3324 D10
3325 E3
3326 E3
3327 F3
3328 E9
3329 E10
3330 G9
3331 E9
3332 E10
3336 G9
3337 H9
3338 F9
3339 F10
3340 E4
3341 G10
3342 E2
3343 C5
3344 C3
3345 C5
3346 C3
3347 C5
4303 D4
4304 D5
4306 G3
4307 G3
4308 G3
4309 G3
4310 H3
4311 G3
4312 G3
4314 G3
4315 B3
4316 B3
5301 G10
6300 A8
6301 C8
7300 A9
7301 A3
7302 B9
7303 B5
7304 C9
7305 D9
7306 E4
7307 D9
7308 E3
7309 E9
7310 F9
7311 H10
7312 F9
7313 C3

7-7

ELECTRICAL PARTS LIST - AV BOARD

ELECTRICAL PARTS LIST - AV BOARD

MISCELLANEOUS

0002	3139 241 21102	EMC Spring	/00/02/05
0003	3139 241 21102	EMC Spring	/00/02/05
1103	2422 033 00468	Socket 2P (S-Video/CVBS)	
1109	2422 026 05529	Socket Cinch 2P (Y/Pb)	
1110	2422 026 05531	Socket Cinch 1P (Pr)	
1112	2422 025 17433	Flex Connector 30P	
1113	2422 025 12352	Socket Scart 21P	/00/02/05
1203	2422 025 18209	Flex Connector 12P	
1300	2422 026 04754	Socket Cinch 2P (Stereo L/R)	
1301	2422 025 16525	Flex Connector 16P	
1302	2422 026 01798	Socket Cinch 6P (Front L/R, Center, Subwoofer, Rear L/R)	
1307	4822 267 31729	Socket Cinch 1P (Coaxial)	

CAPACITORS

2101	4822 126 13883	220pF 5% 50V	
2102	3198 017 44740	470nF 10V	
2108	5322 126 11578	1nF 10% 50V	/00/02/05
2111	2238 586 59812	100nF +80/-20% 50V	
2113	4822 124 40248	10uF 20% 63V	
2114	4822 126 13883	220pF 5% 50V	
2117	4822 126 13883	220pF 5% 50V	
2119	2238 586 59812	100nF +80/-20% 50V	
2120	4822 124 40248	10uF 20% 63V	
2121	4822 126 13883	220pF 5% 50V	
2135	2238 586 59812	100nF +80/-20% 50V	/00/02/05
2137	4822 126 13909	680pF 10% 50V	/00/02/05
2143	4822 126 13909	680pF 10% 50V	/00/02/05
2144	4822 126 13883	220pF 5% 50V	/00/02/05
2147	4822 124 40248	10uF 20% 63V	/00/02/05
2149	4822 124 42027	470uF 20% 6,3V	/00/02/05
2150	4822 126 13883	220pF 5% 50V	/00/02/05
2151	4822 126 13883	220pF 5% 50V	/00/02/05
2153	4822 124 42027	470uF 20% 6,3V	/00/02/05
2154	4822 124 40248	10uF 20% 63V	/00/02/05
2155	4822 126 13883	220pF 5% 50V	/00/02/05
2156	4822 124 42027	470uF 20% 6,3V	/00/02/05
2159	4822 126 13883	220pF 5% 50V	/00/02/05
2168	4822 124 42027	470uF 20% 6,3V	/00/02/05
2170	2020 552 94427	100pF 5% 50V	/00/02/05
2171	4822 124 42027	470uF 20% 6,3V	/00/02/05
2200	4822 124 40196	220uF 20% 16V	
2201	4822 124 40196	220uF 20% 16V	
2202	4822 122 33753	150pF 5% 50V	
2203	2238 586 59812	100nF +80/-20% 50V	
2204	2238 586 59812	100nF +80/-20% 50V	/00/02/05
2206	4822 124 11947	10uF 20% 16V	
2207	4822 124 41584	100uF 20% 10V	
2208	4822 126 13881	470pF 5% 50V	
2209	3198 016 36810	680pF 25V	
2210	5322 126 11578	1nF 10% 50V	
2211	2238 586 59812	100nF +80/-20% 50V	
2212	4822 122 33753	150pF 5% 50V	
2213	2238 586 59812	100nF +80/-20% 50V	
2214	4822 124 11947	10uF 20% 16V	
2215	4822 124 41584	100uF 20% 10V	
2216	4822 122 33752	15pF 5% 50V	
2217	4822 124 40248	10uF 20% 63V	
2218	4822 126 13881	470pF 5% 50V	
2219	3198 016 36810	680pF 25V	
2220	5322 126 11578	1nF 10% 50V	
2221	2238 586 59812	100nF +80/-20% 50V	
2222	4822 124 41584	100uF 20% 10V	
2223	4822 126 14241	330pF 50V	
2224	5322 126 11579	3,3nF 10% 63V	
2225	2238 586 59812	100nF +80/-20% 50V	
2226	4822 122 33753	150pF 5% 50V	
2227	2238 586 59812	100nF +80/-20% 50V	
2228	4822 126 14241	330pF 50V	
2229	4822 124 11947	10uF 20% 16V	
2230	4822 124 41584	100uF 20% 10V	
2231	4822 126 13881	470pF 5% 50V	
2232	3198 016 36810	680pF 25V	
2233	5322 126 11578	1nF 10% 50V	
2234	2238 586 59812	100nF +80/-20% 50V	
2235	4822 124 40433	47uF 20% 25V	
2236	4822 124 41584	100uF 20% 10V	
2237	4822 126 14241	330pF 50V	
2238	5322 126 11579	3,3nF 10% 63V	
2239	4822 122 33753	150pF 5% 50V	
2241	4822 124 11947	10uF 20% 16V	
2242	4822 126 14241	330pF 50V	
2243	4822 124 41584	100uF 20% 10V	
2244	4822 126 13881	470pF 5% 50V	
2245	3198 016 36810	680pF 25V	
2246	5322 126 11578	1nF 10% 50V	
2247	4822 124 40248	10uF 20% 63V	
2248	4822 124 40248	10uF 20% 63V	
2249	2238 586 59812	100nF +80/-20% 50V	
2250	2238 586 59812	100nF +80/-20% 50V	
2251	4822 122 33753	150pF 5% 50V	
2252	4822 122 33752	15pF 5% 50V	
2253	2238 586 59812	100nF +80/-20% 50V	
2255	4822 124 11947	10uF 20% 16V	
2256	4822 124 41584	100uF 20% 10V	
2257	4822 126 13881	470pF 5% 50V	
2258	3198 016 36810	680pF 25V	
2259	5322 126 11578	1nF 10% 50V	
2260	2238 586 59812	100nF +80/-20% 50V	
2261	4822 122 33753	150pF 5% 50V	
2262	4822 124 11947	10uF 20% 16V	
2263	4822 124 41584	100uF 20% 10V	
2264	4822 126 13881	470pF 5% 50V	
2265	3198 016 36810	680pF 25V	
2266	5322 126 11578	1nF 10% 50V	
2268	4822 124 40248	10uF 20% 63V	
2269	2238 586 59812	100nF +80/-20% 50V	
2270	2238 586 59812	100nF +80/-20% 50V	
2271	4822 124 40248	10uF 20% 63V	
2274	4822 124 40196	220uF 20% 16V	/00/02/05
2275	4822 124 41584	100uF 20% 10V	/00/02/05
2304	3198 016 36810	680pF 25V	
2305	4822 124 40207	100uF 20% 25V	
2306	4822 124 41584	100uF 20% 10V	
2309	2238 586 59812	100nF +80/-20% 50V	
2314	3198 016 36810	680pF 25V	
2315	4822 126 13879	220nF +80-20% 16V	
2318	2238 586 59812	100nF +80/-20% 50V	
2319	3198 016 36810	680pF 25V	
2320	4822 124 40433	47uF 20% 25V	
2321	4822 124 40207	100uF 20% 25V	
2322	3198 016 36810	680pF 25V	
2324	4822 124 40196	220uF 20% 16V	
2325	4822 124 41584	100uF 20% 10V	
2326	2238 586 59812	100nF +80/-20% 50V	
2327	3198 016 36810	680pF 25V	
2330	3198 016 36810	680pF 25V	
2331	2238 586 59812	100nF +80/-20% 50V	
2332	3198 016 36810	680pF 25V	
2333	3198 016 36810	680pF 25V	
2334	2238 586 59812	100nF +80/-20% 50V	
2335	4822 124 11947	10uF 20% 16V	
2339	4822 126 11785	47pF 5% 50V	
2342	4822 124 41584	100uF 20% 10V	
2344	4822 124 40207	100uF 20% 25V	
2345	3198 017 44740	470nF 10V	
2346	4822 124 40248	10uF 20% 63V	

RESISTORS

3101	4822 117 12925	47k 1% 0,063W	/00/02/05
3102	4822 051 30272	2k7 5% 0,062W	/00/02/05
3103	4822 051 30272	2k7 5% 0,062W	/00/02/05
3104	4822 051 30689	68R 5% 0,063W	/00/02/05
3105	4822 051 30103	10k 5% 0,062W	
3109	4822 051 30472	4k7 5% 0,062W	/00/02/05
3111	4822 051 30008	0R Jumper 0603	
3117	4822 051 30008	0R Jumper 0603	
3123	4822 051 30008	0R Jumper 0603	
3149	4822 051 30102	1k 5% 0,062W	/00/02/05
3150	4822 051 30102	1k 5% 0,062W	/00/02/05
3151	4822 051 30331	330R 5% 0,062W	/00/02/05
3152	4822 051 30103	10k 5% 0,062W	/00/02/05
3153	4822 051 30102	1k 5% 0,062W	/00/02/05
3159	4822 051 30471	470R 5% 0,062W	/00/02/05
3160	4822 051 30331	330R 5% 0,062W	/00/02/05
3161	4822 051 30103	10k 5% 0,062W	/00/02/05
3162	4822 051 30103	10k 5% 0,062W	/00/02/05
3163	4822 051 30102	1k 5% 0,062W	/00/02/05
3164	4822 051 30339	33R 5% 0,062W	
3165	4822 051 30103	10k 5% 0,062W	/00/02/05
3168	4822 051 30339	33R 5% 0,062W	
3169	4822 051 30471	470R 5% 0,062W	/00/02/05
3170	4822 117 12925	47k 1% 0,063W	/00/02/05
3171	4822 051 30221	220R 5% 0,062W	/00/02/05
3173	4822 051 30103	10k 5% 0,062W	/00/02/05
3174	4822 051 30339	33R 5% 0,062W	
3175	4822 051 30339	33R 5% 0,062W	
3176	4822 051 30103	10k 5% 0,062W	/00/02/05
3177	4822 051 30689	68R 5% 0,063W	/00/02/05
3178	4822 117 12925	47k 1% 0,063W	/00/02/05
3179	4822 051 30689	68R 5% 0,063W	/00/02/05
3180	4822 051 30272	2k7 5% 0,062W	/00/02/05
3181	4822 051 30102	1k 5% 0,062W	/00/02/05
3182	4822 051 30272	2k7 5% 0,062W	/00/02/05
3183	4822 051 30102	1k 5% 0,062W	/00/02/05
3184	4822 051 30102	1k 5% 0,062W	
3186	4822 117 12925	47k 1% 0,063W	/00/02/05
3187	4822 117 12925	47k 1% 0,063W	/00/02/05
3189	4822 051 30103	10k 5% 0,062W	
3190	4822 051 30272	2k7 5% 0,062W	/00/02/05
3191	4822 051 30272	2k7 5% 0,062W	/00/02/05
3192	4822 051 30272	2k7 5% 0,062W	/00/02/05
3193	4822 051 30272	2k7 5% 0,062W	/00/02/05
3194	4822 051 30102	1k 5% 0,062W	/00/02/05
3195	4822 051 30223	22k 5% 0,062W	/00/02/05
3196	4822 051 30103	10k 5% 0,062W	
3198	4822 051 30103	10k 5% 0,062W	
3199	4822 051 30759	75R 5% 0,062W	/00/02/05
3200	4822 051 30339	33R 5% 0,062W	
3202	4822 051 30339	33R 5% 0,062W	
3203	4822 051 30472	4k7 5% 0,062W	
3204	4822 051 30339	33R 5% 0,062W	
3205	4822 117 13632	100k 1% 0,62W	
3206	4822 051 30472	4k7 5% 0,062W	
3207	4822 051 30339	33R 5% 0,062W	
3209	4822 051 30339	33R 5% 0,062W	
3210	4822 117 12891	220k 1%	
3211	4822 117 13632	100k 1% 0,62W	
3212	4822 051 30183	18k 5% 0,062W	
3213	4822 051 30472	4k7 5% 0,062W	
3214	4822 117 11817	1k2 1% 1/16W	
3215	4822 051 30332	3k3 5% 0,062W	
3216	2322 702 60512	RST SM 0603 5k1 PM5	
3217	4822 051 30472	4k7 5% 0,062W	

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ELECTRICAL PARTS LIST - AV BOARD

ELECTRICAL PARTS LIST - AV BOARD

RESISTORS

3218	4822 051 30471	470R 5% 0,062W	
3219	4822 051 30102	1k 5% 0,062W	
3220	4822 051 30101	100R 5% 0,062W	/00/02/05
3221	4822 051 30101	100R 5% 0,062W	/00/02/05
3222	4822 051 30472	4k7 5% 0,062W	
3223	4822 051 30102	1k 5% 0,062W	
3224	4822 051 30183	18k 5% 0,062W	
3225	4822 117 11817	1k2 1% 1/16W	
3226	4822 051 30332	3k3 5% 0,062W	
3227	2322 702 60512	RST SM 0603 5k1 PM5	
3228	4822 051 30472	4k7 5% 0,062W	
3229	4822 117 12139	22R 5% 0,062W	/00/02/05
3231	4822 051 30471	470R 5% 0,062W	
3232	4822 117 12139	22R 5% 0,062W	/69/75
3233	4822 051 30472	4k7 5% 0,062W	
3234	2322 704 62001	RST SM 0603 200R PM1	
3235	4822 051 30339	33R 5% 0,062W	
3236	4822 051 30471	470R 5% 0,062W	
3237	4822 051 30339	33R 5% 0,062W	
3238	2322 704 65102	RST SM 0603 5k1 PM1	
3239	4822 051 30183	18k 5% 0,062W	
3240	4822 051 30339	33R 5% 0,062W	
3241	4822 051 30339	33R 5% 0,062W	
3242	4822 051 30472	4k7 5% 0,062W	
3243	2322 704 62001	RST SM 0603 200R PM1	
3244	4822 051 30339	33R 5% 0,062W	
3245	4822 117 11817	1k2 1% 1/16W	
3246	4822 051 30332	3k3 5% 0,062W	
3247	2322 702 60512	RST SM 0603 5k1 PM5	
3248	4822 051 30472	4k7 5% 0,062W	
3249	4822 051 30339	33R 5% 0,062W	
3250	2322 704 65102	RST SM 0603 5k1 PM1	
3251	4822 051 30471	470R 5% 0,062W	
3252	4822 051 30472	4k7 5% 0,062W	
3253	4822 051 30472	4k7 5% 0,062W	
3254	2322 704 62001	RST SM 0603 200R PM1	
3255	4822 051 30471	470R 5% 0,062W	
3256	2322 704 65102	RST SM 0603 5k1 PM1	
3257	4822 051 30183	18k 5% 0,062W	
3258	4822 117 11817	1k2 1% 1/16W	
3259	4822 051 30332	3k3 5% 0,062W	
3260	2322 702 60512	RST SM 0603 5k1 PM5	
3261	4822 051 30472	4k7 5% 0,062W	
3262	4822 051 30472	4k7 5% 0,062W	
3263	2322 704 62001	RST SM 0603 200R PM1	
3264	4822 051 30471	470R 5% 0,062W	
3265	2322 704 65102	RST SM 0603 5k1 PM1	
3266	4822 051 30183	18k 5% 0,062W	
3267	4822 117 11817	1k2 1% 1/16W	
3268	4822 051 30332	3k3 5% 0,062W	
3269	2322 702 60512	RST SM 0603 5k1 PM5	
3270	4822 051 30472	4k7 5% 0,062W	
3271	4822 051 30471	470R 5% 0,062W	
3272	4822 051 30339	33R 5% 0,062W	
3273	4822 051 30339	33R 5% 0,062W	
3274	4822 117 12139	22R 5% 0,062W	
3275	4822 051 30183	18k 5% 0,062W	
3276	4822 117 11817	1k2 1% 1/16W	
3277	4822 051 30332	3k3 5% 0,062W	
3278	2322 702 60512	RST SM 0603 5k1 PM5	
3279	4822 051 30472	4k7 5% 0,062W	
3280	4822 051 30471	470R 5% 0,062W	
3281	4822 051 30102	1k 5% 0,062W	
3283	4822 051 30339	33R 5% 0,062W	/00/02/05
3288	4822 117 13632	100k 1% 0,62W	
3289	4822 117 12891	220k 1%	
3290	4822 117 13632	100k 1% 0,62W	
3291	4822 117 12891	220k 1%	
3292	4822 051 30222	2k2 5% 0,062W	/00/02/05
3293	4822 051 30683	68k 5% 0,062W	/00/02/05
3294	4822 051 30102	1k 5% 0,062W	
3302	4822 051 30102	1k 5% 0,062W	
3309	4822 051 30103	10k 5% 0,062W	
3310	4822 051 30102	1k 5% 0,062W	
3311	4822 051 30102	1k 5% 0,062W	
3312	4822 051 30103	10k 5% 0,062W	
3313	4822 051 30102	1k 5% 0,062W	
3314	4822 051 30102	1k 5% 0,062W	
3315	4822 051 30103	10k 5% 0,062W	
3316	4822 117 12139	22R 5% 0,062W	
3317	4822 051 30102	1k 5% 0,062W	
3318	4822 117 12139	22R 5% 0,062W	
3319	4822 051 30102	1k 5% 0,062W	
3320	4822 051 30103	10k 5% 0,062W	
3321	4822 051 30102	1k 5% 0,062W	
3322	4822 051 30103	10k 5% 0,062W	/00/02/05
3323	4822 051 30102	1k 5% 0,062W	
3324	4822 051 30103	10k 5% 0,062W	
3325	4822 051 30222	2k2 5% 0,062W	
3326	4822 117 13632	100k 1% 0,62W	
3327	4822 051 30222	2k2 5% 0,062W	
3328	4822 051 30102	1k 5% 0,062W	
3329	4822 051 30103	10k 5% 0,062W	
3330	4822 051 30221	220R 5% 0,062W	
3331	4822 051 30102	1k 5% 0,062W	
3332	4822 051 30103	10k 5% 0,062W	
3336	4822 051 30101	100R 5% 0,062W	
3337	4822 051 30339	33R 5% 0,062W	
3338	4822 051 30102	1k 5% 0,062W	
3339	4822 051 30103	10k 5% 0,062W	
3340	4822 051 30153	15k 5% 0,062W	
3342	4822 051 30103	10k 5% 0,062W	/69/75
3343	4822 051 30121	120R 5% 0,062W	
3344	4822 051 30153	15k 5% 0,062W	/00/02/05
3345	4822 051 30569	56R 5% 0,062W	
3346	4822 117 13632	100k 1% 0,62W	/00/02/05
3347	4822 117 12971	15R 5% 0,62W	
4100	4822 051 30008	0R Jumper 0603	
4101	4822 051 30008	0R Jumper 0603	
4102	4822 051 30008	0R Jumper 0603	/00/02/05
4103	4822 051 30008	0R Jumper 0603	
4104	4822 051 30008	0R Jumper 0603	
4105	4822 051 30008	0R Jumper 0603	
4106	4822 051 30008	0R Jumper 0603	
4107	4822 051 30008	0R Jumper 0603	/69/75
4108	4822 051 30008	0R Jumper 0603	
4109	4822 051 30008	0R Jumper 0603	/69/75
4110	4822 051 30008	0R Jumper 0603	/69/75
4111	4822 051 30008	0R Jumper 0603	
4112	4822 051 30008	0R Jumper 0603	
4113	4822 051 30008	0R Jumper 0603	/69/75
4114	4822 051 30008	0R Jumper 0603	
4115	4822 051 30008	0R Jumper 0603	/69/75
4118	4822 051 30008	0R Jumper 0603	/00/02/05
4119	4822 051 30008	0R Jumper 0603	/00/02/05
4121	4822 051 30008	0R Jumper 0603	/00/02/05
4127	4822 051 30759	75R 5% 0,062W	/00/02/05
4201	4822 051 30008	0R Jumper 0603	
4202	4822 051 30008	0R Jumper 0603	
4204	4822 051 30008	0R Jumper 0603	
4303	4822 051 20008	0R Jumper 0805	/69/75
4304	4822 051 20008	0R Jumper 0805	/00/02/05
4306	4822 051 30008	0R Jumper 0603	
4307	4822 051 30008	0R Jumper 0603	
4308	4822 051 30008	0R Jumper 0603	
4309	4822 051 30008	0R Jumper 0603	
4310	4822 051 30008	0R Jumper 0603	
4311	4822 051 30008	0R Jumper 0603	
4312	4822 051 30008	0R Jumper 0603	
4314	4822 051 30008	0R Jumper 0603	
4315	4822 051 20008	0R Jumper 0805	/69/75
4316	4822 051 20008	0R Jumper 0805	

COILS & FILTERS

5100	2422 549 43062	FXD IND 0603 100MHz 600R	
5103	2422 549 43062	FXD IND 0603 100MHz 600R	
5104	4822 051 30008	0R Jumper 0603	/00/02/05
5202	2422 549 43062	FXD IND 0603 100MHz 600R	
5203	2422 549 43062	FXD IND 0603 100MHz 600R	

DIODES

6100	4822 130 11522	PDZ15B	/69/75
6101	4822 130 11522	PDZ15B	
6102	4822 130 11522	PDZ15B	
6104	4822 130 11522	PDZ15B	
6105	4822 130 11522	PDZ15B	
6106	4822 130 11522	PDZ15B	
6107	4822 130 11522	PDZ15B	/00/02/05
6108	4822 130 11522	PDZ15B	/00/02/05
6109	4822 130 11522	PDZ15B	/00/02/05
6110	3198 020 55680	PDZ5.6B	/00/02/05
6111	4822 130 11522	PDZ15B	/00/02/05
6112	4822 130 11522	PDZ15B	/00/02/05
6206	4822 130 11397	BAS316	
6207	4822 130 11397	BAS316	
6208	4822 130 11397	BAS316	
6210	4822 130 11397	BAS316	
6211	4822 130 11397	BAS316	
6212	4822 130 11397	BAS316	
6213	4822 130 11397	BAS316	
6215	4822 130 11397	BAS316	
6216	4822 130 11397	BAS316	
6217	4822 130 11397	BAS316	/00/02/05
6218	4822 130 11397	BAS316	/00/02/05
6219	4822 130 11397	BAS316	/00/02/05
6300	4822 130 11397	BAS316	
6301	4822 130 11397	BAS316	

TRANSISTORS & INTEGRATED CIRCUITS

7105	9322 195 23668	IC SM ADG733BRU	/00/02/05
7113	9322 200 00685	IC SM AD8091ART	/00/02/05
7116	5322 130 60159	BC847B	/00/02/05
7119	5322 130 60159	BC847B	/00/02/05
7120	5322 130 60159	BC847B	/00/02/05
7123	5322 130 60159	BC847B	/00/02/05
7124	5322 130 60159	BC847B	/00/02/05
7127	5322 130 60159	BC847B	/00/02/05
7138	5322 130 60159	BC847B	/00/02/05
7140	4822 130 60373	BC857B	/00/02/05
7141	5322 130 60159	BC847B	
7142	5322 130 60159	BC847B	
7221	4822 130 60373	BC857B	
7222	4822 130 60373	BC857B	
7223	4822 130 60373	BC857B	
7224	4822 209 30095	IC SM LM833D	
7225	4822 130 60373	BC857B	
7228	9322 151 71668	IC SM MK2703STR	/00/02/05
7230	4822 130 60373	BC857B	
7233	4822 209 30095	IC SM LM833D	
7234	9322 177 09685	IC SM AK4382AVT	
7235	4822 209 30095	IC SM LM833D	
7237	9322 104 47668	IC SM L78M05CDT	
7239	4822 209 30095	IC SM LM833D	
7240	9965 000 12490	IC SM CS4360-KZ	

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ELECTRICAL PARTS LIST - AV BOARD

TRANSISTORS & INTEGRATED CIRCUITS

7241	5322 130 60159	BC847B	
7242	5322 130 60159	BC847B	
7243	4822 130 60373	BC857B	/00/02/05
7300	4822 130 42804	BC817-25	
7301	5322 209 86283	IC L7808CP	
7302	4822 130 42804	BC817-25	
7303	9322 182 95668	IC SM LD1117S	
7304	4822 130 42804	BC817-25	
7305	4822 130 42804	BC817-25	
7306	9322 178 05685	FET POW SI2302DS	
7307	4822 130 42804	BC817-25	
7308	5322 130 60159	BC847B	/00/02/05
7309	4822 130 42804	BC817-25	
7310	4822 130 42804	BC817-25	
7311	9322 175 41687	SOC FIB OPT JFJ1000	
7312	4822 130 42804	BC817-25	
7313	9322 178 05685	FET POW SI2302DS	/00/02/05

Note : Only the parts mentioned in this list are normal service spare parts.

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MODULE SD6.1 PL 6CH

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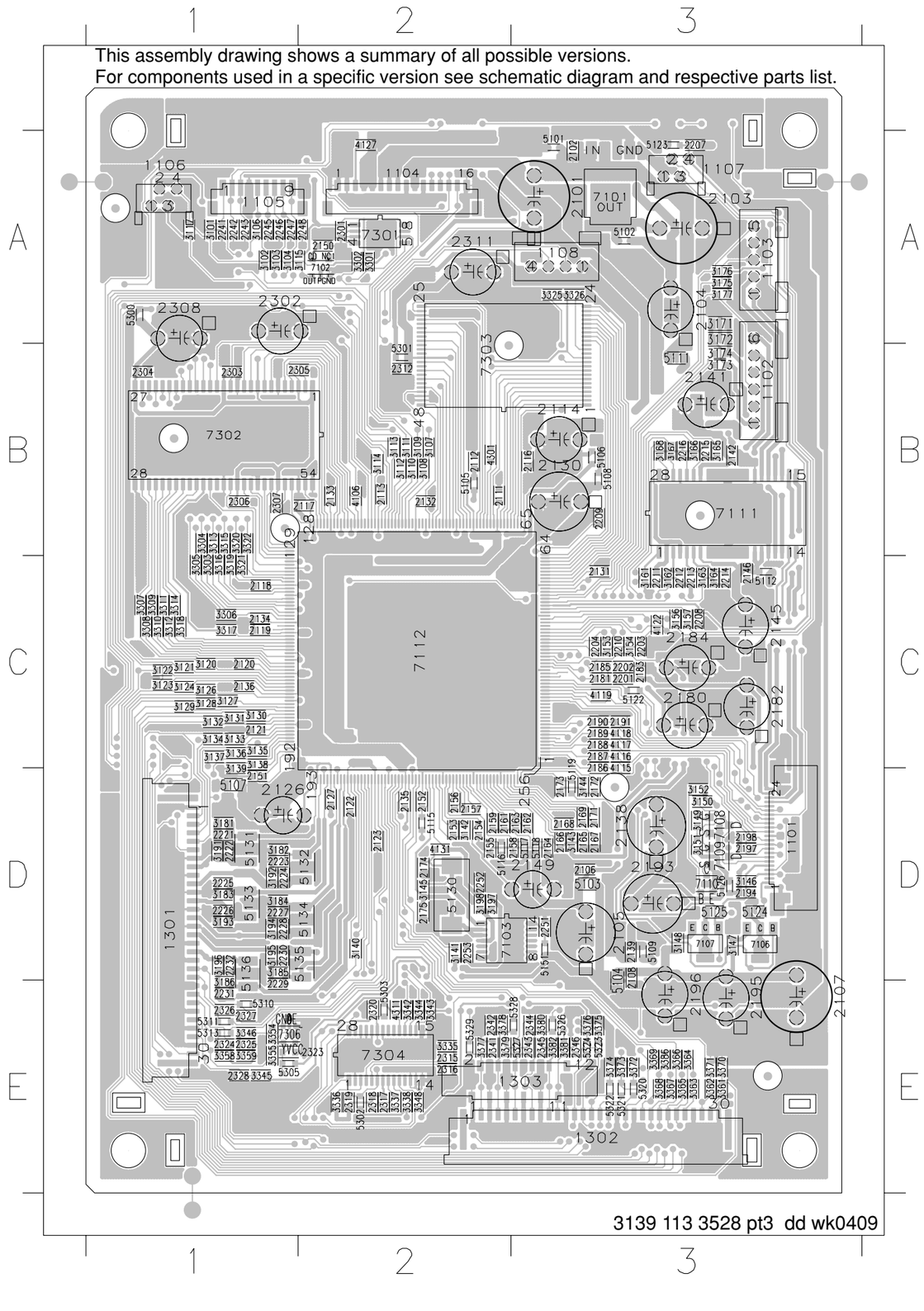
SD6.1 PL 6CH BOARD - TOP VIEW LAYOUT

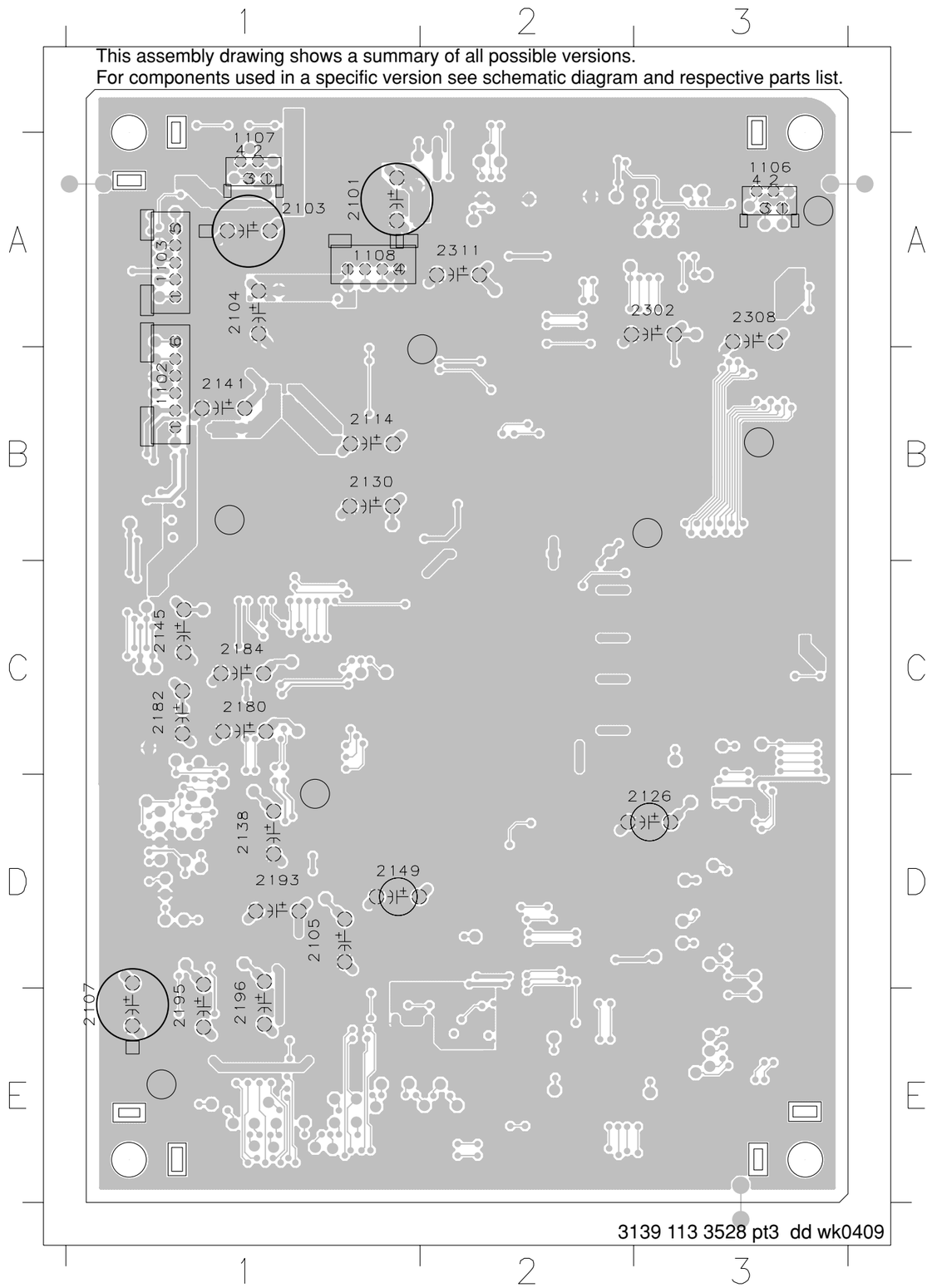

This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram and respective parts list.
3139 113 3528 pt3 dd wk0409

1101	D3	2171	D3	2308	A1	3151	D3	3345	E1	5134	D2				
1102	B3	2172	D3	2311	A2	3152	D3	3346	E1	5135	D2				
1103	A3	2173	D3	2312	B2	3153	C3	3348	E2	5136	D1				
1104	A2	2174	D2	2315	E2	3154	C3	3354	E1	5151	D3				
1105	A1	2175	D2	2316	E2	3156	C3	3355	E1	5300	A1				
1106	A1	2180	C3	2317	E2	3157	C3	3358	E1	5301	B2				
1107	A3	2181	C3	2318	E2	3161	C3	3359	E1	5302	E2				
1108	A3	2182	C3	2319	E2	3162	C3	3361	E3	5303	E2				
1301	D1	2183	C3	2320	E2	3163	C3	3362	E3	5305	E1				
1302	E3	2184	C3	2323	E1	3164	C3	3363	E3	5310	E1				
1303	E3	2185	C3	2324	E1	3165	B3	3364	E3	5311	E1				
2101	A3	2186	C3	2325	E1	3166	B3	3365	E3	5313	E1				
2102	A3	2187	C3	2326	E1	3167	B3	3366	E3	5320	E3				
2103	A3	2188	C3	2327	E1	3168	B3	3367	E3	5321	E3				
2104	A3	2189	C3	2328	E1	3171	A3	3368	E3	5322	E3				
2105	D3	2190	C3	2341	E2	3172	A3	3369	E3	5323	E3				
2106	D3	2191	C3	2342	E2	3173	B3	3370	E3	5324	E3				
2107	E3	2193	D3	2343	E3	3174	B3	3371	E3	5326	E3				
2108	D3	2194	D3	2344	E3	3175	A3	3372	E3	5327	E3				
2111	B2	2195	E3	2345	E3	3176	A3	3373	E3	5328	E3				
2112	B2	2196	E3	2346	E3	3177	A3	3374	E3	5329	E2				
2113	B2	2197	D3	3101	A1	3181	D1	3375	E3	7101	A3				
2114	B3	2198	D3	3102	A1	3182	D1	3376	E3	7102	A2				
2116	B3	2201	C3	3103	A1	3183	D1	3377	E2	7103	D2				
2117	B2	2202	C3	3104	A1	3184	D1	3378	E2	7106	D3				
2118	C1	2203	C3	3106	A1	3185	D1	3379	E2	7107	D3				
2119	C1	2204	C3	3107	B2	3186	E1	3380	E3	7108	D3				
2120	C1	2207	A3	3108	B2	3191	D1	3381	E3	7109	D3				
2121	C1	2208	C3	3109	B2	3192	D1	3382	E3	7110	D3				
2122	D2	2209	B3	3110	B2	3193	D1	3386	E3	7111	B3				
2123	D2	2210	C3	3111	B2	3194	D1	4106	B2	7112	C2				
2126	D1	2211	C3	3112	B2	3195	D1	4115	C3	7301	A2				
2127	D2	2212	C3	3113	B2	3196	D1	4116	C3	7302	B1				
2130	B3	2213	C3	3114	B2	3197	D2	4117	C3	7303	B2				
2131	C3	2214	C3	3115	A2	3198	D2	4118	C3	7304	E2				
2132	B2	2215	B3	3117	A1	3301	A2	4119	C3	7306	E1				
2133	B2	2216	B3	3120	C1	3302	A2	4122	C3						
2134	C1	2221	D1	3121	C1	3303	C1	4127	A2						
2135	D2	2222	D1	3122	C1	3304	B1	4131	D2						
2136	C1	2223	D1	3123	C1	3305	C1	4301	B2						
2138	D3	2224	D1	3124	C1	3306	C1	4311	E2						
2139	D3	2225	D1	3126	C1	3307	C1	5101	A3						
2141	B3	2226	D1	3127	C1	3308	C1	5102	A3						
2142	B3	2227	D1	3128	C1	3309	C1	5103	D3						
2145	C3	2228	D1	3129	C1	3310	C1	5104	E3						
2146	C3	2229	E1	3130	C1	3311	C1	5105	B2						
2149	D3	2230	D1	3131	C1	3312	C1	5106	B3						
2150	A2	2231	E1	3132	C1	3313	B1	5107	D1						
2151	D1	2232	D1	3133	C1	3314	C1	5108	B3						
2152	D2	2241	A1	3134	C1	3315	B1	5109	D3						
2153	D2	2242	A1	3135	C1	3316	C1	5111	B3						
2154	D2	2243	A1	3136	C1	3317	C1	5112	C3						
2155	D2	2245	A1	3137	C1	3318	C1	5115	D2						
2156	D2	2246	A1	3138	C1	3319	C1	5116	D2						
2157	D2	2247	A1	3139	D1	3320	B1	5117	D3						
2158	D3	2248	A2	3140	D2	3321	C1	5118	D3						
2159	D2	2251	D3	3141	D2	3322	B1	5119	D3						
2161	D2	2252	D2	3142	D2	3325	A3	5122	C3						
2162	D3	2253	D2	3143	D3	3326	A3	5123	A3						
2163	D3	2301	A2	3144	D3	3335	E2	5124	D3						
2164	D3	2302	A1	3145	D2	3336	E2	5125	D3						
2165	D3	2303	B1	3146	D3	3337	E2	5126	D3						
2166	D3	2304	B1	3147	D3	3338	E2	5130	D2						
2167	D3	2305	B2	3148	D3	3342	E2	5131	D1						
2168	D3	2306	B1	3149	D3	3343	E2	5132	D2						
2169	D3	2307	B1	3150	D3	3344	E2	5133	D1						

8-3

SD6.1 PL 6CH BOARD - BOTTOM VIEW LAYOUT

This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram and respective parts list.

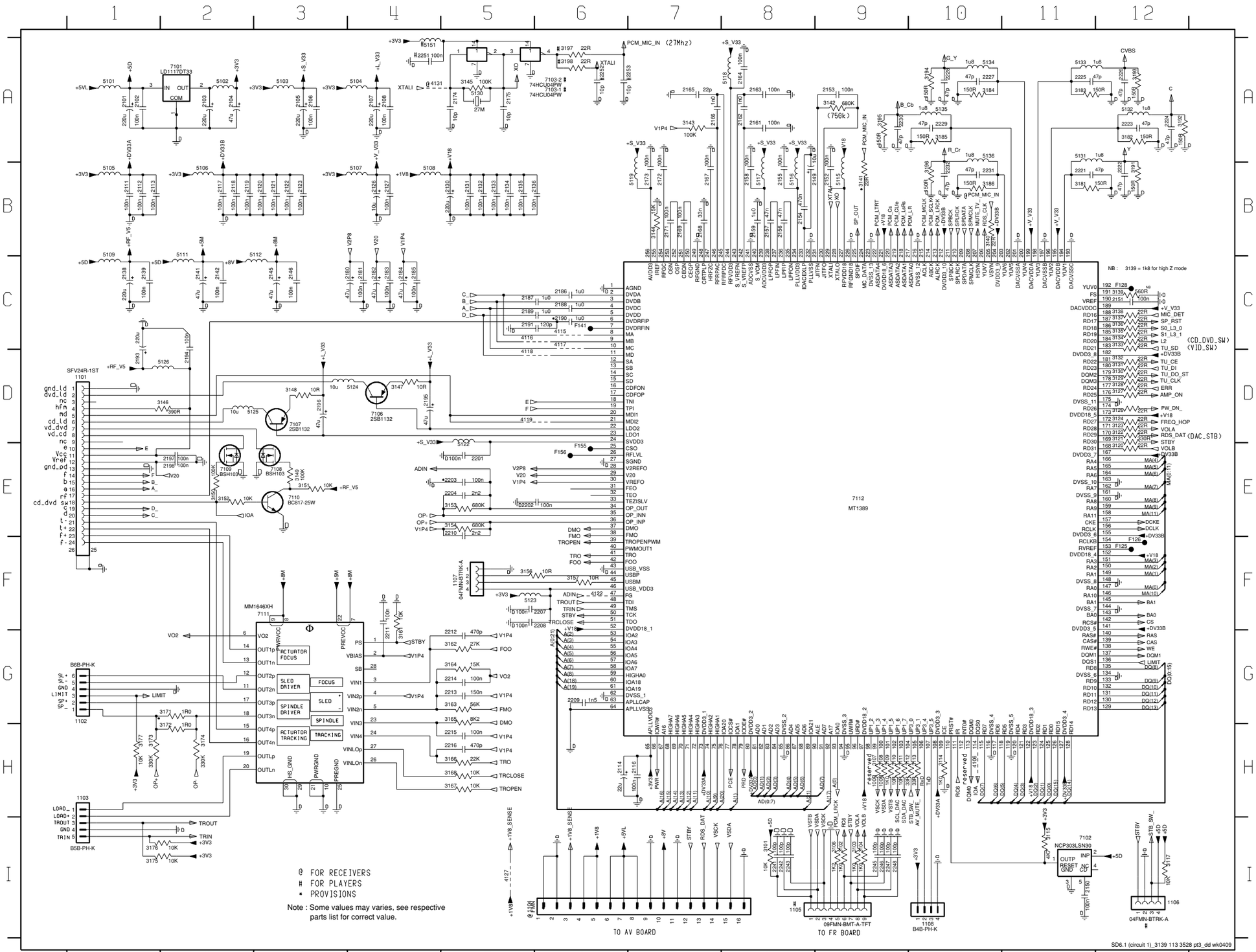


1102 B1
1103 A1
1106 A3
1107 A1
1108 A1
2101 A1
2103 A1
2104 A1
2105 D1
2107 E1
2114 B1
2126 D3
2130 B1
2138 D1
2141 B1
2145 C1
2149 D1
2180 C1
2182 C1
2184 C1
2193 D1
2195 E1
2196 E1
2302 A3
2308 A3
2311 A2

3139 113 3528 pt3 dd wk0409

8-4

SD6.1 PL 6CH BOARD - CIRCUIT DIAGRAM (PART 1)



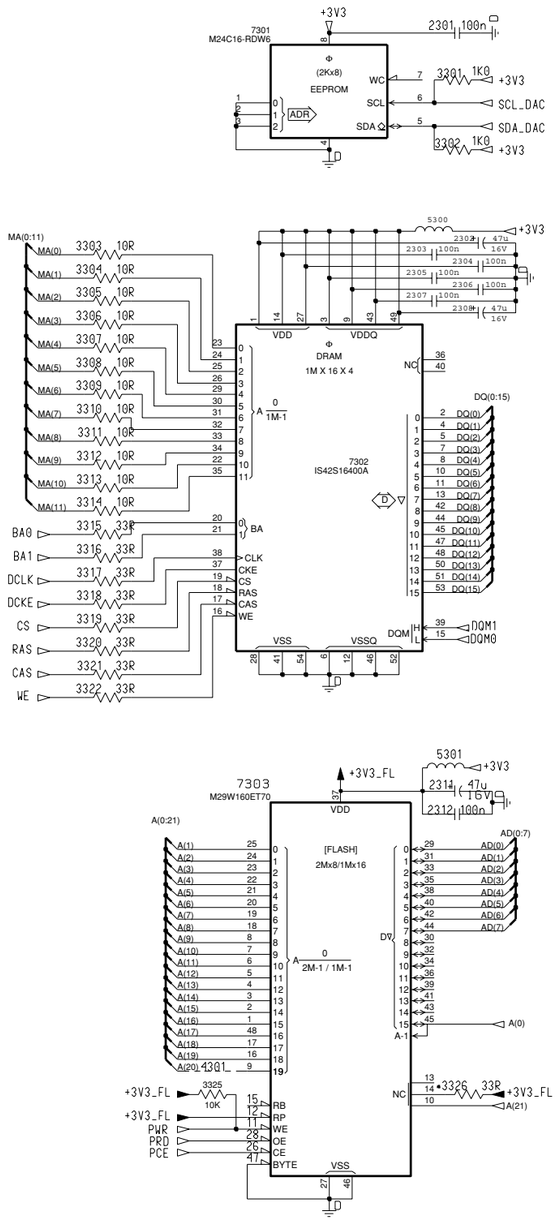
8-5

SD6.1 PL 6CH BOARD - CIRCUIT DIAGRAM (PART 2)

@ For receiver
# For player
* Provision

Note : Some values may varies, see respective parts list for correct value.

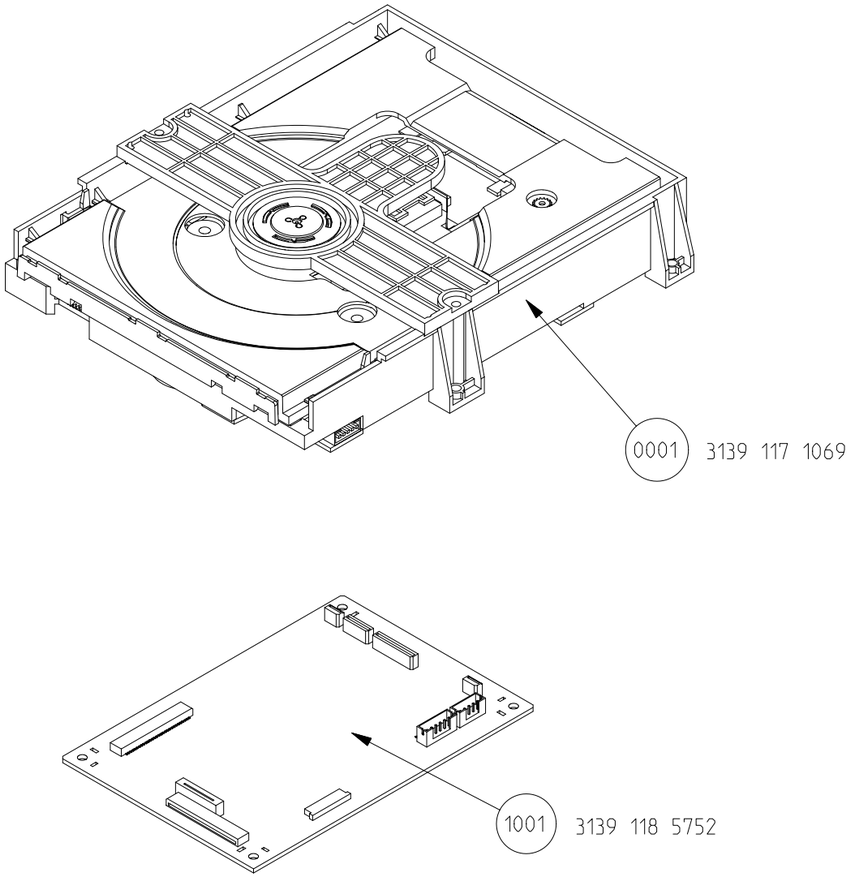
nb : sequence reversed if using jst connector



SD6.1 (circuit 2)_3139 113 3528 pt3_dd wk0409

1301 E12	5322 B10
1302 A11	5323 B10
1303 B12	5324 C10
2301 A3	5326 C10
2302 C4	5327 C10
2303 C3	5328 C10
2304 C4	5329 C10
2305 C3	7301 A2
2306 C4	7302 D3
2307 C3	7303 F2
2308 C4	7304 E6
2311 F3	7306 C7
2312 F3	
2315 F6	
2316 F6	
2317 H6	
2318 H7	
2319 D7	
2320 D7	
2323 C8	
2324 H11	
2325 G11	
2326 H11	
2327 G11	
2328 H11	
2341 D10	
2342 D10	
2343 D10	
2344 D10	
2345 D11	
2346 D11	
3301 B4	
3302 B3	
3303 C1	
3304 C1	
3305 C1	
3306 C1	
3307 C1	
3308 C1	
3309 C1	
3310 D1	
3311 D1	
3312 D1	
3313 D1	
3314 D1	
3315 D1	
3316 D1	
3317 E1	
3318 E1	
3319 E1	
3320 E1	
3321 E1	
3322 E1	
3325 H2	
3326 H4	
3335 F6	
3336 G6	
3337 G7	
3338 G6	
3342 E8	
3343 E8	
3344 E8	
3345 G10	
3346 G10	
3348 F6	
3354 C6	
3355 C8	
3358 H11	
3359 G11	
3361 A10	
3362 A10	
3363 A10	
3364 A10	
3365 A10	
3366 A10	
3367 A10	
3368 A10	
3369 A10	
3370 A10	
3371 A10	
3372 B10	
3373 B10	
3374 B10	
3375 B10	
3376 B9	
3377 D10	
3378 D10	
3379 D10	
3380 D10	
3381 C10	
3382 C10	
3386 A10	
4301 H2	
4311 G8	
5300 B3	
5301 F4	
5302 D6	
5303 D8	
5305 C7	
5310 F10	
5311 F10	
5313 G10	
5320 B10	
5321 B10	

EXPLODED VIEW - MODULE SD6.1 PL 6CH



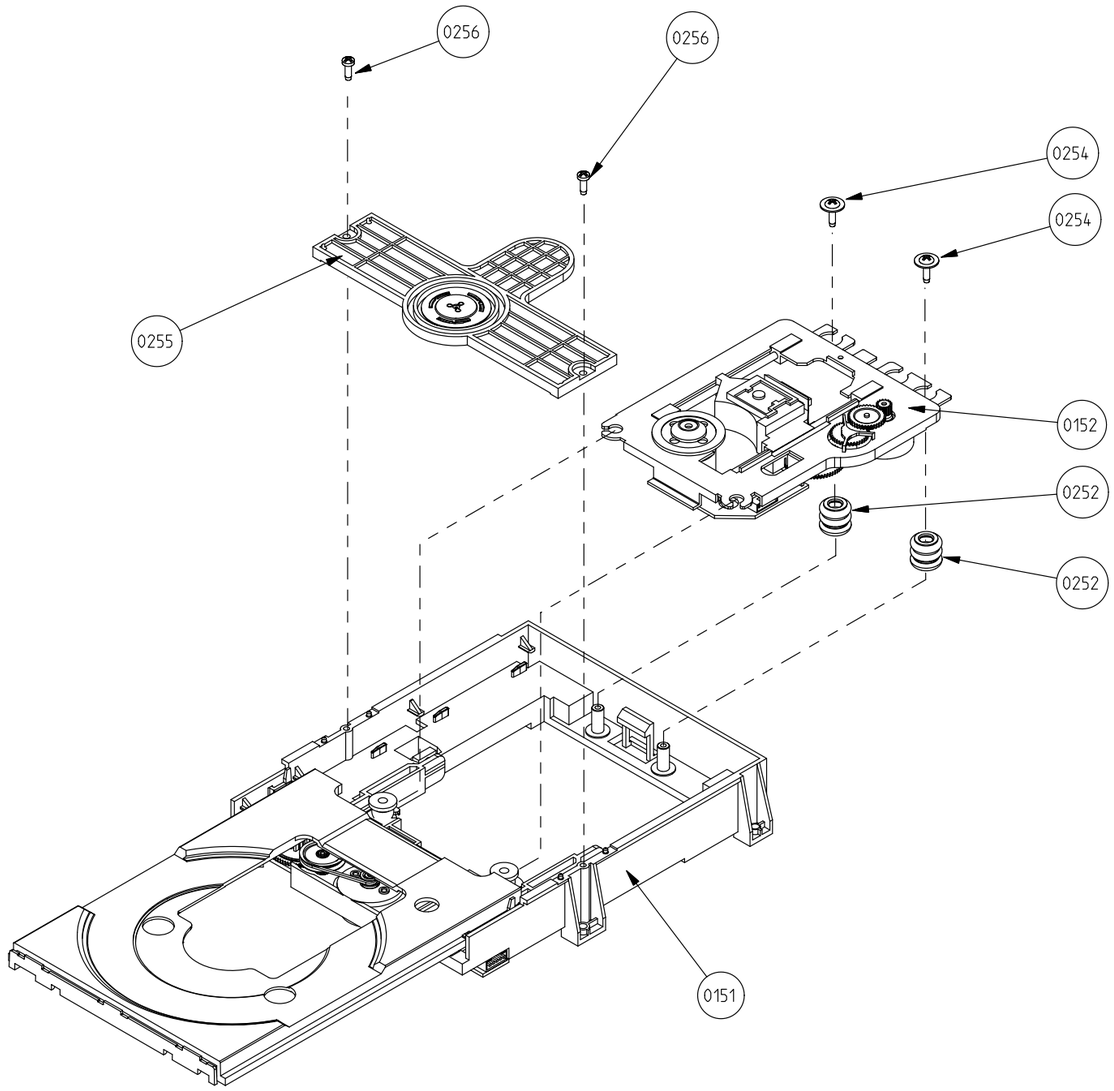
Module SD6.1 PL 6CH_3139 117 10631_dd wk0409

MODULE SD6.1 PL 6CH PARTS LIST

0001	3139 117 10691	Module DVD Loader ASA+DV34 PL
1001	3139 118 57521	PCBAS SD6.1 PL 6CH
1101	3139 111 04021	FFC Foil 24P/220 AD 0.5MMP FLD

Note : Only the parts mentioned in this list are normal service spare parts.

EXPLODED VIEW - MODULE DVD LOADER ASA+DV34 PL



Module DVD Loader ASA+DV34 PL_3139 117 10691_dd wk0409

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ELECTRICAL PARTS LIST - SD6.1 PL 6CH BOARD

ELECTRICAL PARTS LIST - SD6.1 PL 6CH BOARD

MISCELLANEOUS

1101	2422 025 17529	Flex Connector 24P
1104	2422 025 16388	Flex Connector 16P
1105	2422 025 17768	Flex Connector 9P
1106	2422 025 16727	Flex Connector 4P
1107	2422 025 16727	Flex Connector 4P
1301	2422 025 17451	Flex Connector 30P
1303	2422 025 18395	Flex Connector 12P

CAPACITORS

2101	3198 029 12210	220uF 20% 10V
2102	2238 586 59812	100nF +80/-20% 50V
2103	3198 029 12210	220uF 20% 10V
2104	4822 124 80231	47uF 20% 16V
2105	4822 124 40196	220uF 20% 16V
2106	2238 586 59812	100nF +80/-20% 50V
2107	3198 029 12210	220uF 20% 10V
2108	2238 586 59812	100nF +80/-20% 50V
2111	2238 586 59812	100nF +80/-20% 50V
2112	2238 586 59812	100nF +80/-20% 50V
2113	2238 586 59812	100nF +80/-20% 50V
2114	4822 124 81151	22uF 50V
2116	2238 586 59812	100nF +80/-20% 50V
2117	2238 586 59812	100nF +80/-20% 50V
2118	2238 586 59812	100nF +80/-20% 50V
2119	2238 586 59812	100nF +80/-20% 50V
2120	2238 586 59812	100nF +80/-20% 50V
2121	2238 586 59812	100nF +80/-20% 50V
2122	2238 586 59812	100nF +80/-20% 50V
2123	2238 586 59812	100nF +80/-20% 50V
2126	4822 124 21732	10uF 20% 25V
2127	2238 586 59812	100nF +80/-20% 50V
2130	4822 124 40196	220uF 20% 16V
2131	2238 586 59812	100nF +80/-20% 50V
2132	2238 586 59812	100nF +80/-20% 50V
2133	2238 586 59812	100nF +80/-20% 50V
2134	2238 586 59812	100nF +80/-20% 50V
2135	2238 586 59812	100nF +80/-20% 50V
2136	2238 586 59812	100nF +80/-20% 50V
2138	4822 124 40196	220uF 20% 16V
2139	2238 586 59812	100nF +80/-20% 50V
2141	4822 124 80231	47uF 20% 16V
2142	2238 586 59812	100nF +80/-20% 50V
2145	4822 124 80231	47uF 20% 16V
2146	2238 586 59812	100nF +80/-20% 50V
2149	4822 124 21732	10uF 20% 25V
2150	2238 586 59812	100nF +80/-20% 50V
2151	2238 586 59812	100nF +80/-20% 50V
2152	2238 586 59812	100nF +80/-20% 50V
2153	2238 586 59812	100nF +80/-20% 50V
2154	3198 017 44740	470nF 10V
2155	2238 586 59812	100nF +80/-20% 50V
2156	3198 017 34730	47nF 16V
2157	3198 017 34730	47nF 16V
2158	2238 586 59812	100nF +80/-20% 50V
2159	3198 017 41050	1uF 10V
2161	2238 586 59812	100nF +80/-20% 50V
2162	5322 126 11578	1nF 10% 50V
2163	2238 586 59812	100nF +80/-20% 50V
2164	2238 586 59812	100nF +80/-20% 50V
2165	4822 122 33761	22pF 5% 50V
2166	5322 126 11578	1nF 10% 50V
2167	2238 586 59812	100nF +80/-20% 50V
2168	4822 126 14549	33nF 16V
2169	2238 586 59812	100nF +80/-20% 50V
2171	2238 586 59812	100nF +80/-20% 50V
2172	2238 586 59812	100nF +80/-20% 50V
2173	2238 586 59812	100nF +80/-20% 50V
2174	4822 126 14223	2,2pF 50V
2175	4822 126 14223	2,2pF 50V
2180	4822 124 80231	47uF 20% 16V
2181	2238 586 59812	100nF +80/-20% 50V
2182	4822 124 80231	47uF 20% 16V
2183	2238 586 59812	100nF +80/-20% 50V
2184	4822 124 80231	47uF 20% 16V
2185	2238 586 59812	100nF +80/-20% 50V
2186	3198 017 41050	1uF 10V
2187	3198 017 41050	1uF 10V
2188	3198 017 41050	1uF 10V
2189	3198 017 41050	1uF 10V
2190	3198 017 41050	1uF 10V
2193	4822 124 40196	220uF 20% 16V
2194	2238 586 59812	100nF +80/-20% 50V
2195	4822 124 80231	47uF 20% 16V
2196	4822 124 80231	47uF 20% 16V
2197	2238 586 59812	100nF +80/-20% 50V
2198	2238 586 59812	100nF +80/-20% 50V
2201	2238 586 59812	100nF +80/-20% 50V
2202	2238 586 59812	100nF +80/-20% 50V
2204	4822 126 14238	2,2nF 50V
2207	2238 586 59812	100nF +80/-20% 50V
2208	2238 586 59812	100nF +80/-20% 50V
2209	4822 126 14247	1,5nF 50V
2210	4822 126 14238	2,2nF 50V
2211	2238 586 59812	100nF +80/-20% 50V
2212	4822 126 13881	470pF 5% 50V
2213	3198 017 31540	150nF 10V
2214	2222 586 18812	100nF 10% 50V
2215	2222 586 18812	100nF 10% 50V
2216	4822 126 13881	470pF 5% 50V
2221	4822 126 11785	47pF 5% 50V
2222	4822 126 11785	47pF 5% 50V
2223	4822 126 11785	47pF 5% 50V
2224	4822 126 11785	47pF 5% 50V
2225	4822 126 11785	47pF 5% 50V
2226	4822 126 11785	47pF 5% 50V
2227	4822 126 11785	47pF 5% 50V
2228	4822 126 11785	47pF 5% 50V
2229	4822 126 11785	47pF 5% 50V
2230	4822 126 11785	47pF 5% 50V
2231	4822 126 11785	47pF 5% 50V
2232	4822 126 11785	47pF 5% 50V
2241	2020 552 94427	100pF 5% 50V
2242	2020 552 94427	100pF 5% 50V
2243	2020 552 94427	100pF 5% 50V
2245	2020 552 94427	100pF 5% 50V
2246	2020 552 94427	100pF 5% 50V
2247	2020 552 94427	100pF 5% 50V
2248	2020 552 94427	100pF 5% 50V
2251	2238 586 59812	100nF +80/-20% 50V
2252	4822 122 33741	10pF 10% 50V
2253	4822 122 33741	10pF 10% 50V
2301	2238 586 59812	100nF +80/-20% 50V
2302	4822 124 80231	47uF 20% 16V
2303	2238 586 59812	100nF +80/-20% 50V
2304	2238 586 59812	100nF +80/-20% 50V
2305	2238 586 59812	100nF +80/-20% 50V
2306	2238 586 59812	100nF +80/-20% 50V
2307	2238 586 59812	100nF +80/-20% 50V
2308	4822 124 80231	47uF 20% 16V
2311	4822 124 80231	47uF 20% 16V
2312	2238 586 59812	100nF +80/-20% 50V
2323	2238 586 59812	100nF +80/-20% 50V
2324	4822 122 33761	22pF 5% 50V
2325	4822 122 33761	22pF 5% 50V
2326	4822 122 33761	22pF 5% 50V
2327	4822 122 33761	22pF 5% 50V
2328	4822 122 33761	22pF 5% 50V
2341	4822 122 33761	22pF 5% 50V
2342	4822 122 33761	22pF 5% 50V
2343	4822 122 33761	22pF 5% 50V
2344	4822 122 33761	22pF 5% 50V
2345	4822 122 33761	22pF 5% 50V
2346	4822 122 33761	22pF 5% 50V

RESISTORS

3101	4822 051 30103	10k 5% 0,062W
3102	4822 051 30102	1k 5% 0,062W
3103	4822 051 30102	1k 5% 0,062W
3104	4822 051 30102	1k 5% 0,062W
3106	4822 117 11817	1k2 1% 1/16W
3107	4822 051 30102	1k 5% 0,062W
3108	4822 051 30101	100R 5% 0,062W
3109	4822 051 30101	100R 5% 0,062W
3110	4822 051 30109	10R 5% 0,062W
3111	4822 051 30109	10R 5% 0,062W
3112	4822 051 30339	33R 5% 0,062W
3113	4822 051 30339	33R 5% 0,062W
3114	4822 051 30102	1k 5% 0,062W
3115	4822 051 30472	4k7 5% 0,062W
3117	4822 051 30103	10k 5% 0,062W
3120	4822 117 12139	22R 5% 0,062W
3121	4822 051 30331	330R 5% 0,062W
3122	4822 117 12139	22R 5% 0,062W
3123	4822 117 12139	22R 5% 0,062W
3124	4822 117 12139	22R 5% 0,062W
3126	4822 117 12139	22R 5% 0,062W
3127	4822 117 12139	22R 5% 0,062W
3128	4822 117 12139	22R 5% 0,062W
3129	4822 117 12139	22R 5% 0,062W
3130	4822 117 12139	22R 5% 0,062W
3131	4822 117 12139	22R 5% 0,062W
3132	4822 117 12139	22R 5% 0,062W
3133	4822 117 12139	22R 5% 0,062W
3134	4822 117 12139	22R 5% 0,062W
3135	4822 117 12139	22R 5% 0,062W
3136	4822 117 12139	22R 5% 0,062W
3137	4822 117 12139	22R 5% 0,062W
3138	4822 117 12139	22R 5% 0,062W
3139	4822 051 30561	560R 5% 0,062W
3142	2322 704 67504	RST SM 0603 RC22H 750k PM1
3143	4822 117 13632	100k 1% 0,62W
3144	4822 051 30153	15k 5% 0,062W
3145	4822 117 13632	100k 1% 0,62W
3146	4822 051 30391	390R 5% 0,062W
3147	4822 051 30109	10R 5% 0,062W
3148	4822 051 30109	10R 5% 0,062W
3149	4822 117 13632	100k 1% 0,62W
3150	4822 117 13632	100k 1% 0,62W
3151	4822 051 30103	10k 5% 0,062W
3152	4822 051 30103	10k 5% 0,062W
3153	4822 051 30684	680k 5% 0,062W
3154	4822 051 30684	680k 5% 0,062W
3156	4822 051 30109	10R 5% 0,062W
3157	4822 051 30109	10R 5% 0,062W
3161	4822 051 30103	10k 5% 0,062W
3162	4822 051 30273	27k 5% 0,062W
3163	4822 051 30563	56k 5% 0,062W
3164	4822 051 30153	15k 5% 0,062W
3165	5322 117 13056	8k2 1% 0,063W
3166	4822 051 30223	22k 5% 0,062W
3167	4822 051 30103	10k 5% 0,062W
3168	4822 051 30103	10k 5% 0,062W
3171	4822 051 20108	1R 5% 0,1W
3173	4822 051 30334	330k 5% 0,062W
3174	4822 051 30334	330k 5% 0,062W
3175	4822 051 30103	10k 5% 0,062W
3176	4822 051 30103	10k 5% 0,062W
3177	4822 051 30103	10k 5% 0,062W

ELECTRICAL PARTS LIST - SD6.1 PL 6CH BOARD

ELECTRICAL PARTS LIST - SD6.1 PL 6CH BOARD

RESISTORS

3181	2322 704 61501	RST SM 0603 RC22H 150R PM1
3182	2322 704 61501	RST SM 0603 RC22H 150R PM1
3183	2322 704 61501	RST SM 0603 RC22H 150R PM1
3184	2322 704 61501	RST SM 0603 RC22H 150R PM1
3185	2322 704 61501	RST SM 0603 RC22H 150R PM1
3186	2322 704 61501	RST SM 0603 RC22H 150R PM1
3191	2322 704 61501	RST SM 0603 RC22H 150R PM1
3192	2322 704 61501	RST SM 0603 RC22H 150R PM1
3193	2322 704 61501	RST SM 0603 RC22H 150R PM1
3194	2322 704 61501	RST SM 0603 RC22H 150R PM1
3195	2322 704 61501	RST SM 0603 RC22H 150R PM1
3196	2322 704 61501	RST SM 0603 RC22H 150R PM1
3197	4822 117 12139	22R 5% 0,062W
3198	4822 117 12139	22R 5% 0,062W
3301	4822 051 30102	1k 5% 0,062W
3302	4822 051 30102	1k 5% 0,062W
3303	4822 051 30109	10R 5% 0,062W
3304	4822 051 30109	10R 5% 0,062W
3305	4822 051 30109	10R 5% 0,062W
3306	4822 051 30109	10R 5% 0,062W
3307	4822 051 30109	10R 5% 0,062W
3308	4822 051 30109	10R 5% 0,062W
3309	4822 051 30109	10R 5% 0,062W
3310	4822 051 30109	10R 5% 0,062W
3311	4822 051 30109	10R 5% 0,062W
3312	4822 051 30109	10R 5% 0,062W
3313	4822 051 30109	10R 5% 0,062W
3314	4822 051 30109	10R 5% 0,062W
3315	4822 051 30339	33R 5% 0,062W
3316	4822 051 30339	33R 5% 0,062W
3317	4822 051 30339	33R 5% 0,062W
3318	4822 051 30339	33R 5% 0,062W
3319	4822 051 30339	33R 5% 0,062W
3320	4822 051 30339	33R 5% 0,062W
3321	4822 051 30339	33R 5% 0,062W
3322	4822 051 30339	33R 5% 0,062W
3325	4822 051 30103	10k 5% 0,062W
3326	4822 051 30339	33R 5% 0,062W
3345	4822 117 12139	22R 5% 0,062W
3346	4822 117 12139	22R 5% 0,062W
3354	4822 051 30102	1k 5% 0,062W
3355	4822 117 12139	22R 5% 0,062W
3358	4822 051 30102	1k 5% 0,062W
3381	4822 051 30109	10R 5% 0,062W
3382	4822 051 30109	10R 5% 0,062W
3386	4822 051 30103	10k 5% 0,062W
4106	4822 051 30008	0R Jumper 0603
4115	4822 051 30008	0R Jumper 0603
4116	4822 051 30008	0R Jumper 0603
4117	4822 051 30008	0R Jumper 0603
4118	4822 051 30008	0R Jumper 0603
4119	4822 051 30008	0R Jumper 0603
4122	4822 051 30008	0R Jumper 0603
4127	4822 051 30008	0R Jumper 0603
4301	4822 051 30008	0R Jumper 0603

COILS & FILTERS

5101	2422 549 45618	IND FXD 0603 EMI 100MHz 60R
5102	2422 549 45618	IND FXD 0603 EMI 100MHz 60R
5103	4822 157 71206	FXD IND 0805 100MHz 600R
5104	4822 157 71206	FXD IND 0805 100MHz 600R
5105	2422 549 43062	FXD IND 0603 100MHz 600R
5106	2422 549 43062	FXD IND 0603 100MHz 600R
5107	4822 157 71206	FXD IND 0805 100MHz 600R
5108	2422 549 45618	IND FXD 0603 EMI 100MHz 60R
5109	2422 549 43062	FXD IND 0603 100MHz 600R
5111	4822 157 71206	FXD IND 0805 100MHz 600R
5112	2422 549 45618	IND FXD 0603 EMI 100MHz 60R
5115	2422 549 43062	FXD IND 0603 100MHz 600R
5116	2422 549 43062	FXD IND 0603 100MHz 600R
5117	2422 549 43062	FXD IND 0603 100MHz 600R
5118	2422 549 43062	FXD IND 0603 100MHz 600R
5119	2422 549 43062	FXD IND 0603 100MHz 600R
5122	2422 549 43062	FXD IND 0603 100MHz 600R
5123	2422 549 45618	IND FXD 0603 EMI 100MHz 60R
5124	3198 018 31090	FXD IND SM 0805 10U PM10
5125	3198 018 31090	FXD IND SM 0805 10U PM10
5126	2422 549 43062	FXD IND 0603 100MHz 600R
5130	2422 543 01393	RES XTL SM 27MHz 10P CX8045
5131	3198 018 41880	FXD IND SM 1210 1U8 PM5
5132	3198 018 41880	FXD IND SM 1210 1U8 PM5
5133	3198 018 41880	FXD IND SM 1210 1U8 PM5
5134	3198 018 41880	FXD IND SM 1210 1U8 PM5
5135	3198 018 41880	FXD IND SM 1210 1U8 PM5
5136	3198 018 41880	FXD IND SM 1210 1U8 PM5
5151	2422 549 43062	FXD IND 0603 100MHz 600R
5300	2422 549 43062	FXD IND 0603 100MHz 600R
5301	2422 549 43062	FXD IND 0603 100MHz 600R
5305	2422 549 43062	FXD IND 0603 100MHz 600R
5310	2422 549 43062	FXD IND 0603 100MHz 600R
5311	2422 549 43062	FXD IND 0603 100MHz 600R
5313	2422 549 43062	FXD IND 0603 100MHz 600R
5323	2422 549 43062	FXD IND 0603 100MHz 600R
5326	2422 549 43062	FXD IND 0603 100MHz 600R
5327	2422 549 43062	FXD IND 0603 100MHz 600R
5328	2422 549 43062	FXD IND 0603 100MHz 600R
5329	2422 549 43062	FXD IND 0603 100MHz 600R

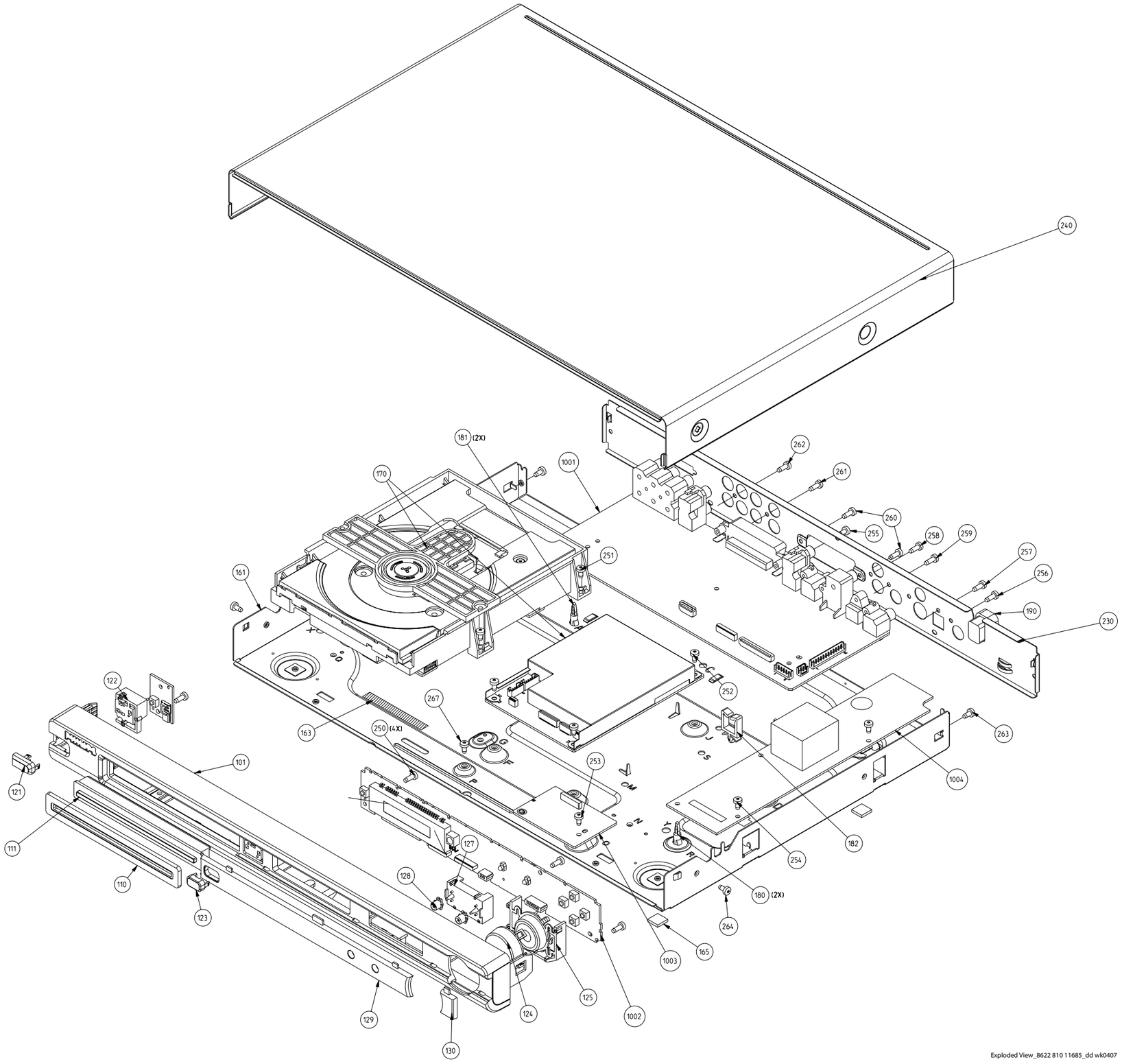
TRANSISTORS & INTEGRATED CIRCUITS

7101	4822 209 17398	IC SM LD1117DT33
7102	9322 165 15685	IC SM NCP303LSN30
7103	9351 875 80118	IC SM 74HCU04PW
7106	4822 130 11565	2SB1132
7107	4822 130 11565	2SB1132
7108	9340 547 13215	FET SIG SM BSH103
7109	9340 547 13215	FET SIG SM BSH103
7110	9340 219 30115	BC817-25W
7111	9322 201 94668	IC SM MM1646XH
7112	9322 203 35671	IC SM MT1389E
7301	9322 189 04668	IC SM M24C16-RDW6
7302	9322 199 38671	IC SM IS42S16400A-7T
7303	3139 110 53711	FLASH + EMBEDDED SW
7306	9352 456 90115	IC SM 74HC1G125GW

Note : Only the parts mentioned in this list are normal service spare parts.

9-1

SET MECHANICAL EXPLODED VIEW



Exploded View_8622 810 11685_dd wk0407

MECHANICAL & ACCESSORIES PARTS LIST - MAIN UNIT

0101	3139 244 04651		Cabinet Front
0105	3139 247 51831		Badge Philips Assy Silver
0110	3139 247 58371		Tray Front
0111	3139 244 05001		Tray Strip
0121	3139 247 58481		Button Standby Top
0122	3139 244 03411		Button Standby Bottom
0123	3139 247 58461		Button Open/Close
0124	3139 247 58442		Button Cluster Top
0125	3139 247 58451		Button Cluster Bottom
0127	3139 244 04621		Guide Light
0128	3139 244 04611		Ring Light
0129	3139 244 04601		Window Centre
0130	3139 247 58621		Window Side
0165	3139 243 10080		Cushion Foot
0180	3139 240 40061		Spacer - 8mm
0181	3139 240 40061		Spacer - 8mm
0190	4822 532 60948		Bush
0333	3139 248 72031		Remote Control
0336	2422 070 98231	⚠	Mains Cord /00/02
0336	3103 140 25882	⚠	Mains Cord /05
0336	4822 321 11139	⚠	Mains Cord /69
0336	2422 070 98233	⚠	Mains Cord /75
0338	2422 076 00304		Cable Cinch 1M5 YE/RD/WH /69/75
0342	2422 076 00445	⚠	Cable SCART 1M1 21P BK /00/02/05
1004	3139 248 72061		Module PSU DVD HE 2004 MIT
1101	3139 241 00541		FFC Foil 30P/120/30P AD 1MMP
1102	3139 111 02421		FFC Foil 16P/220/16P AD 1MMP
1103	3139 241 00511		FFC Foil 12P/080/12P AD 1MMP
1104	3139 241 00531		FFC Foil 04P/400/04P AD 1MMP /69/75
1105	3139 241 00521		FFC Foil 09P/140/09P AD 1MMP
1106	3139 241 00551		FFC Foil 16P/100/16P AD 1MMP /00/02/05

Note : Only the parts mentioned in this list are normal service spare parts.

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SCREW LISTS - MAIN UNIT

250	D3 x 8	
251	M3 x 6	
252	M3 x 4	
253	M3 x 4	
254	M3 x 4	
255	M3 x 4	
256	D3 x 8	
257	D3 x 8	
258	D3 x 8	
259	D3 x 8	
260	D3 x 8	/00/02/05
261	D3 x 8	
262	D3 x 8	
263	M3 x 6	
264	M3 x 6	
267	M3 x 4	

PSU BOARD

(For Information only)

It is not recommended for component repair on this board but to replace the board when it becomes defective.
Therefore no service parts list is published in this chapter.

The only service part available for replacement is:
Module PSU DVD HE 2004 MIT 3139 248 72061

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Circuit Diagram 10-2

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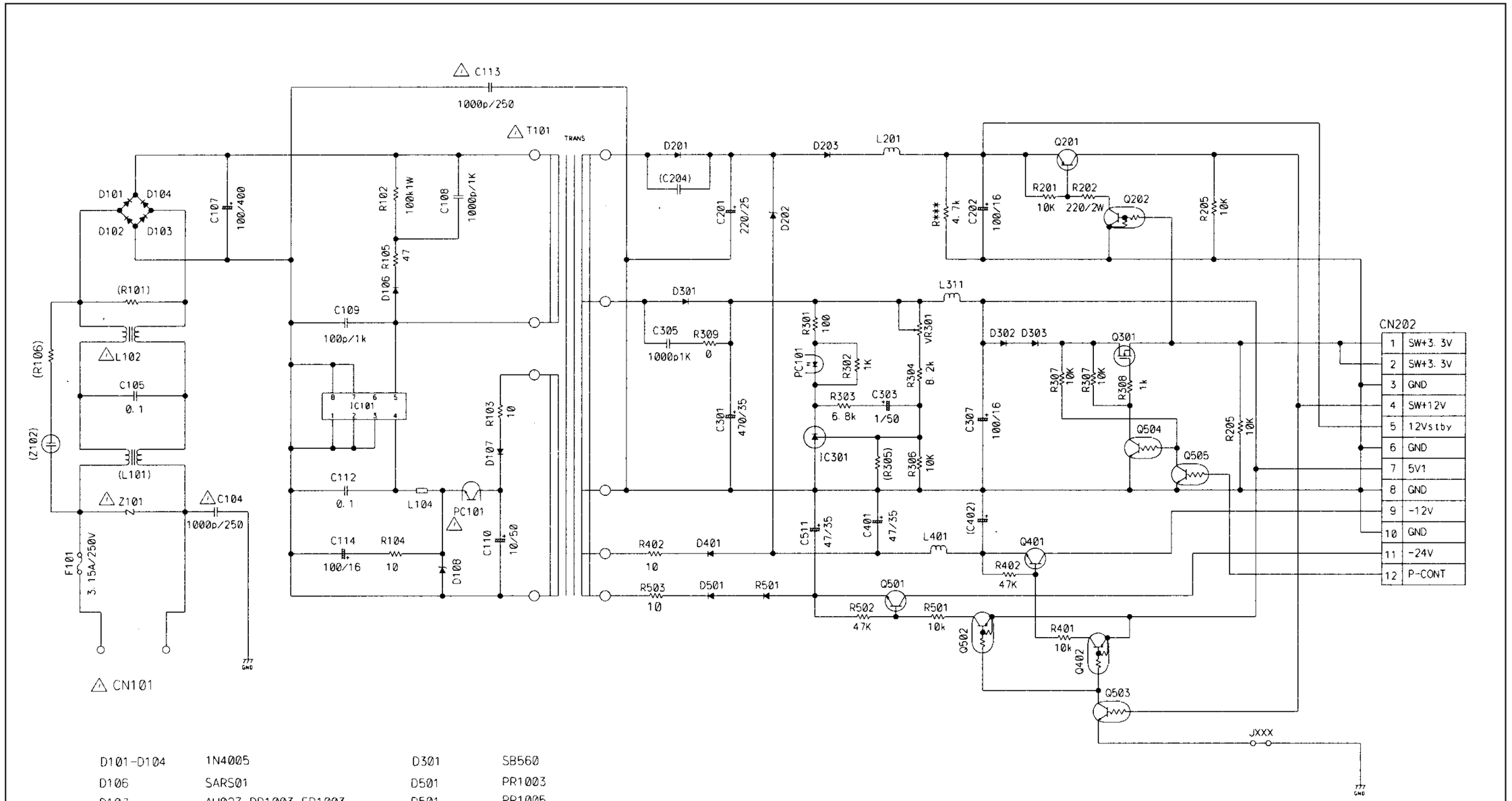
PSU BOARD - CIRCUIT DIAGRAM



D101-D104	1N4005
D106	SARS01
D107	AU02Z, PR1003, FR1003
D108	MTZJ7.5 or MA4075
IC101	MIP2E4DMY
PC101	PC123, PS2561
D201	D2L20U
D202	MTZJ36 or MA4360
D203	1N4005

D301	SB560
D501	PR1003
D501	PR1005
Q201	2SB1592
Q401	2SD1768
Q501	2PC1815, 2SC1815
Q402, Q502	DTA114
Q202 Q503	DTC114
Q504, Q505	DTC114
IC301	TL431

REVISION LIST

Version 1.0 (3139 785 30650)

* Initial Release DVP720SA/00/02/05/69/75

Version 1.1 (3139 785 30651)

* Page 5-3 : ECO Board - Electrical parts list adapted
* Chapter 10 : Additional of Chapter 10 (PSU Board - For Information only)